

Wed Feb 21 16:58:29 2018

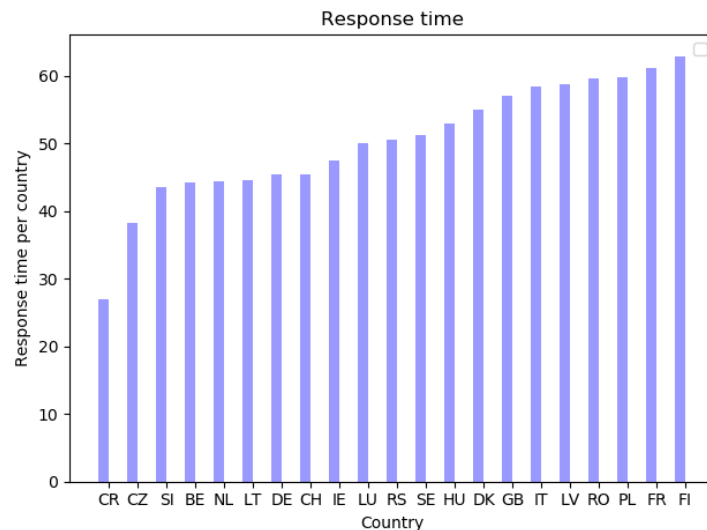
Misc-Stats:

Totally pinged IP-Adresses: 50000
Responding IP-Adresses: 4504
Not responding IP-Adresses: 45496
Percentage: 9.008

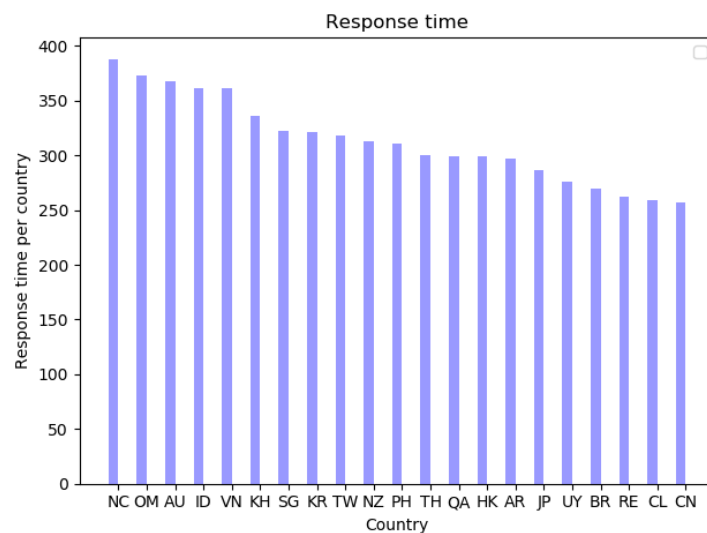
Time-Stats:

The average response time was 176.43

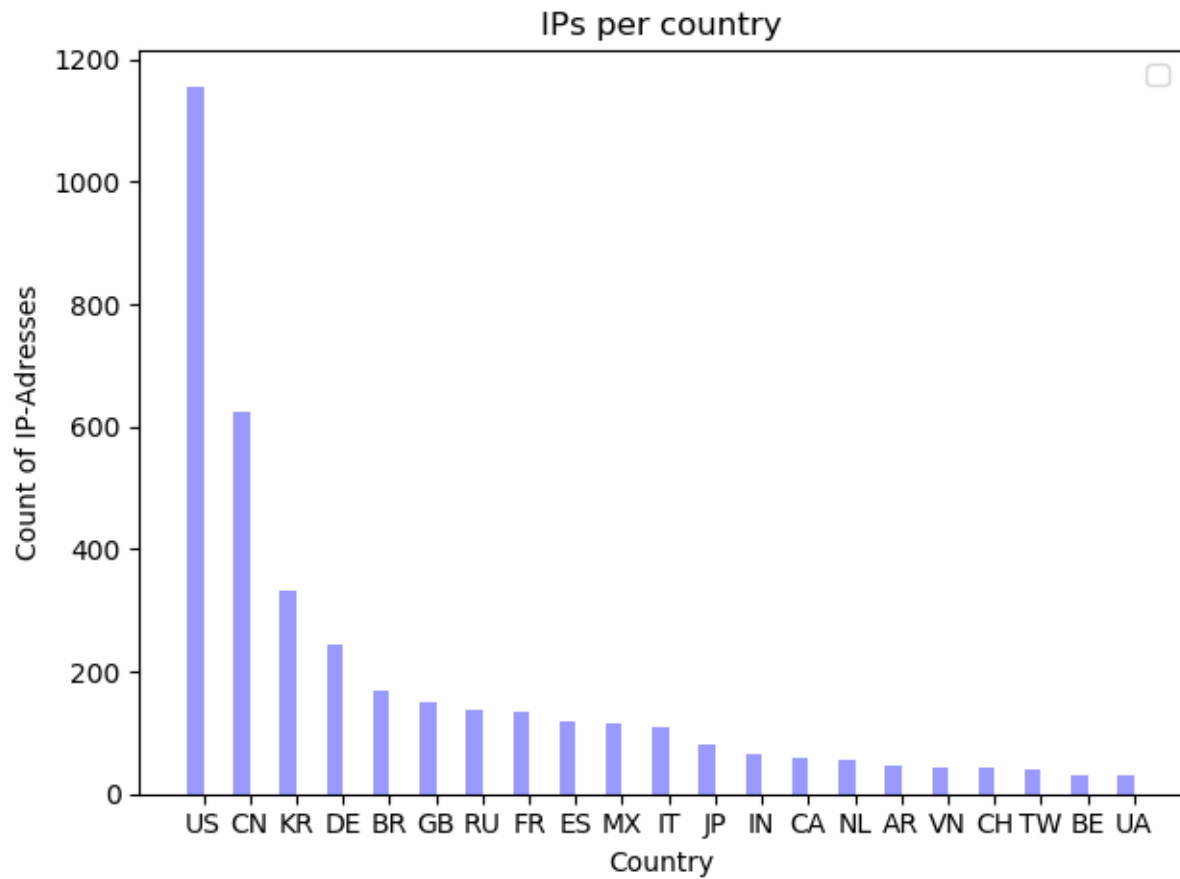
Average response time for every country (ASCENDING):



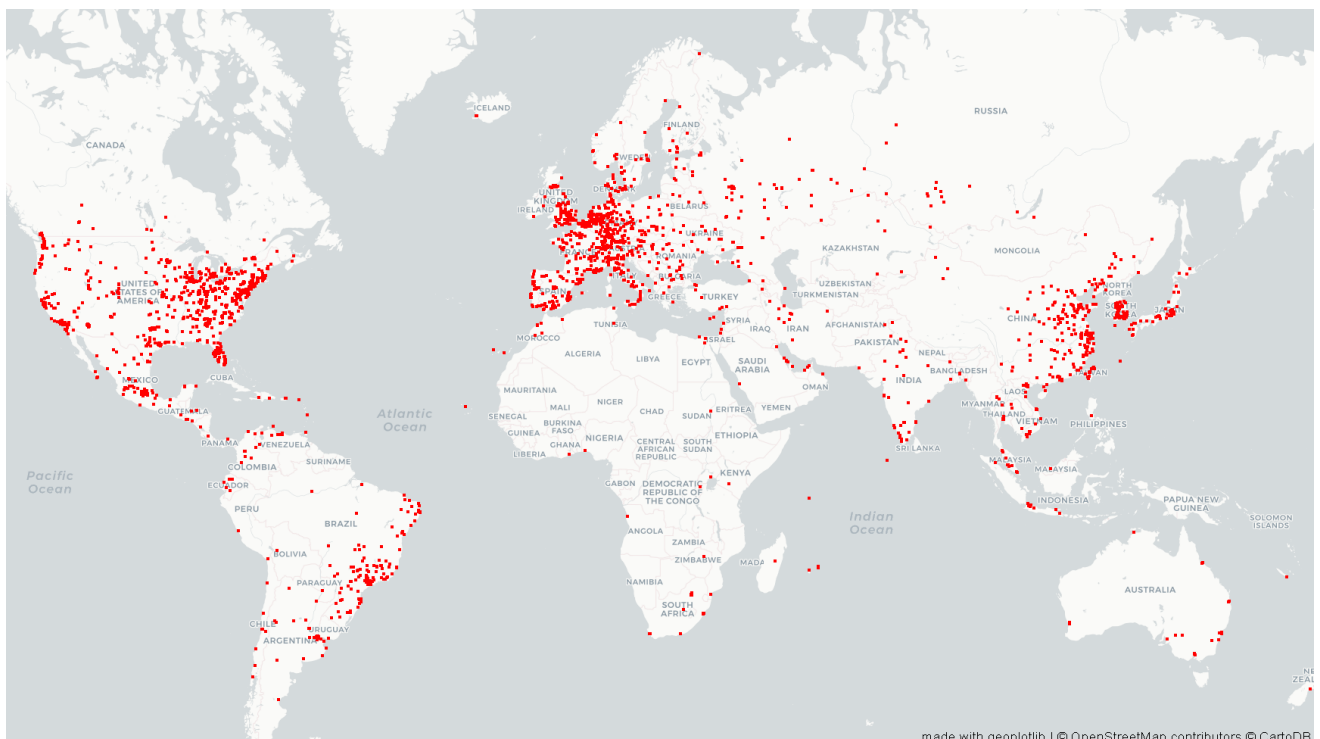
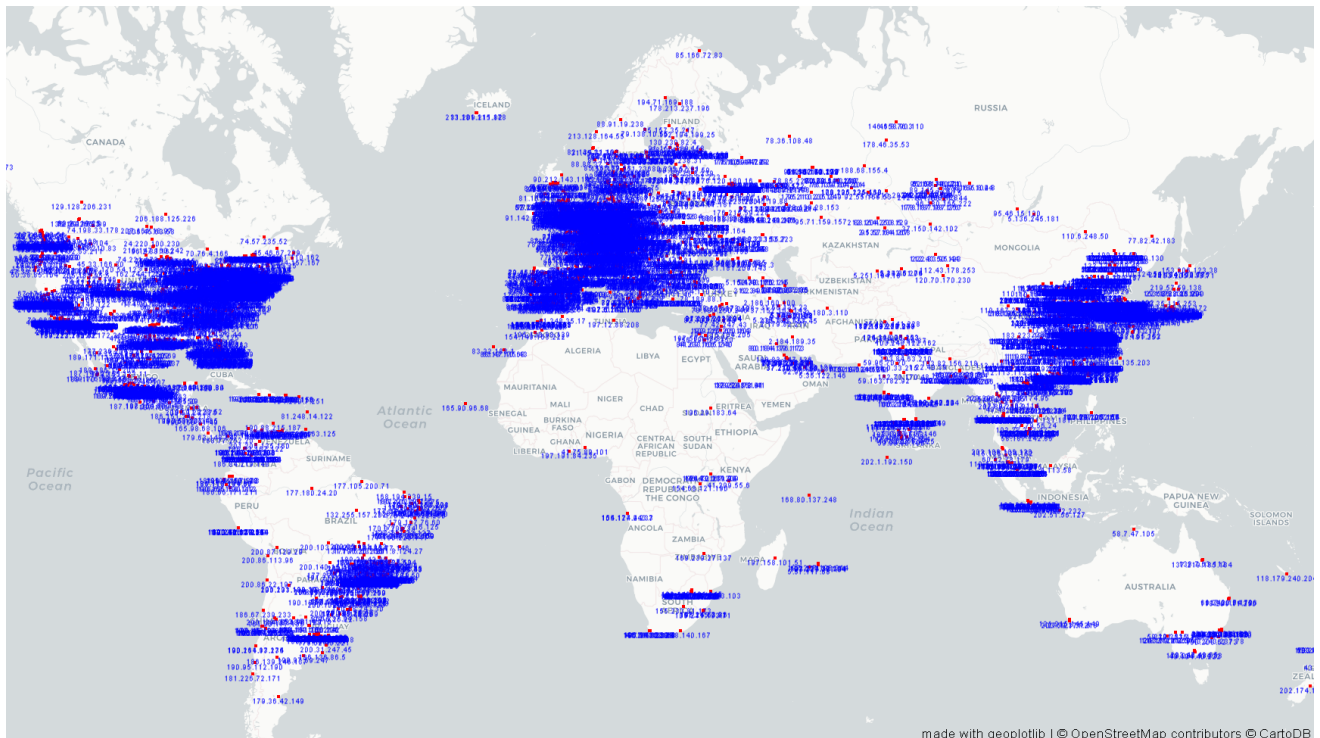
Average response time for every country (DESCENDING):



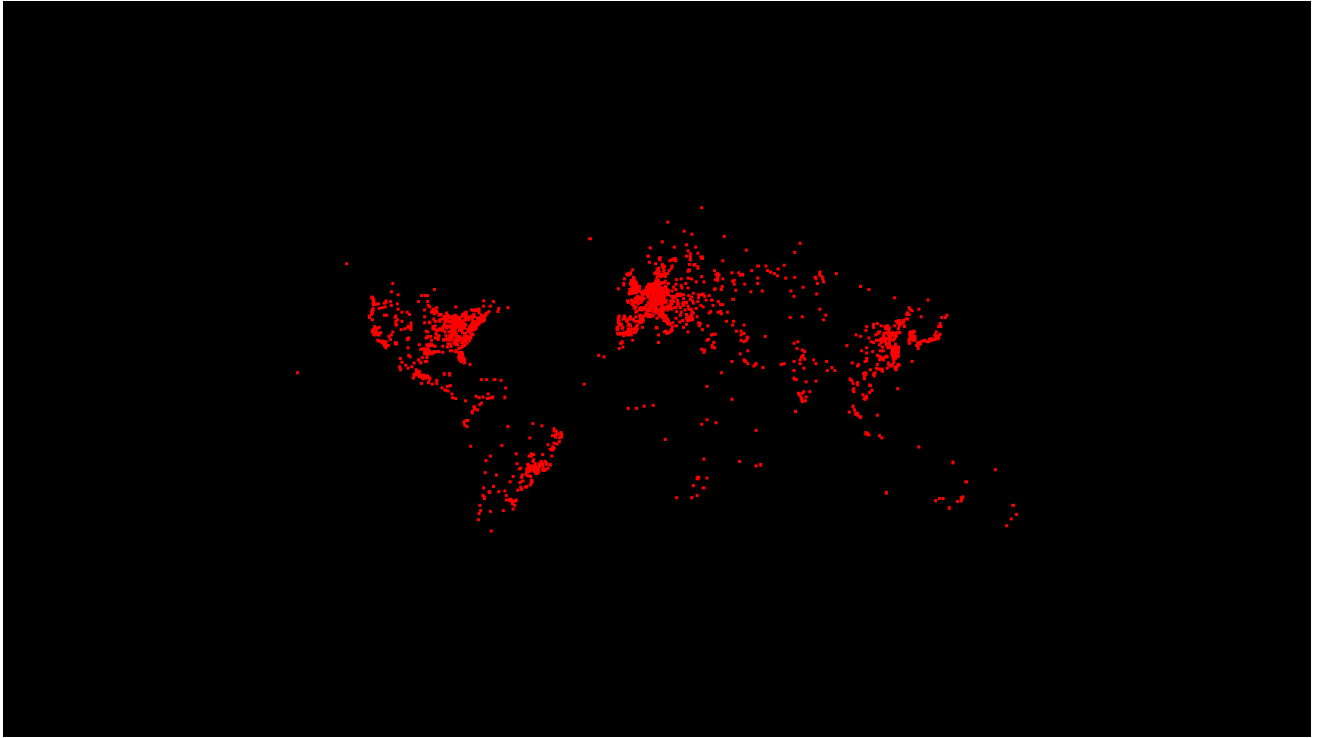
The dispersal of the responding IPs to the countrys:



The locations of every IP founded in this result:



The locations of every IP ever founded:



Name	City	Country	IP	Region	ZIP-Code
AS812 Rogers Communications Canada Inc.	Wasaga Beach	Canada	99.241.25.105	Ontario	L9Z
AS7018 AT&T; Services, Inc.	Forney	United States	99.183.128.149	Texas	75126
AS6389 BellSouth.net Inc.	Henderson	United States	98.93.217.52	Kentucky	42420
AS10796 Time Warner Cable Internet LLC	Springboro	United States	98.29.125.196	Ohio	45066
AS7922 Comcast Cable Communications, LLC	Miami	United States	98.254.41.246	Florida	33133
AS7922 Comcast Cable Communications, LLC	Stone Mountain	United States	98.251.42.56	Georgia	30088
AS7922 Comcast Cable Communications, LLC	Northville	United States	98.250.91.229	Michigan	48168
AS11426 Time Warner Cable Internet LLC	Columbia	United States	98.25.40.25	South Carolina	29206
AS7922 Comcast Cable Communications, LLC	Miami	United States	98.249.134.130	Florida	33126
AS7922 Comcast Cable Communications, LLC	Hollywood	United States	98.242.193.33	Florida	33025
AS7922 Comcast Cable Communications, LLC	Carlisle	United States	98.237.41.148	Pennsylvania	17015
AS7922 Comcast Cable Communications, LLC	York	United States	98.237.104.99	Pennsylvania	17402
AS7922 Comcast Cable Communications, LLC	Seattle	United States	98.232.20.119	Washington	98118
AS7922 Comcast Cable Communications, LLC	Albuquerque	United States	98.230.198.69	New Mexico	87112
AS7922 Comcast Cable Communications, LLC	Indianapolis	United States	98.226.76.184	Indiana	46256
AS7922 Comcast Cable Communications, LLC	Indianapolis	United States	98.226.73.28	Indiana	46250
AS7922 Comcast Cable Communications, LLC	Chicago	United States	98.226.230.94	Illinois	60619
AS7922 Comcast Cable Communications, LLC	Evanston	United States	98.226.138.91	Illinois	60202
AS7922 Comcast Cable Communications, LLC	Lafayette	United States	98.225.228.73	Pennsylvania	19444
AS7922 Comcast Cable Communications, LLC	Roseville	United States	98.224.101.170	California	95747
AS7922 Comcast Cable Communications, LLC	Zion	United States	98.223.15.123	Illinois	60099
AS7922 Comcast Cable Communications, LLC	Riverside	United States	98.221.41.204	New Jersey	08075
AS7922 Comcast Cable Communications, LLC	Washington	United States	98.218.176.186	District of Columbia	20003
AS7922 Comcast Cable Communications, LLC	Springfield	United States	98.215.251.242	Illinois	62704

AS7922 Comcast Cable Communications, LLC	San Lorenzo	United States	98.210.26.121	California	94580
AS7922 Comcast Cable Communications, LLC	Cypress	United States	98.201.192.129	Texas	77429
AS11351 Time Warner Cable Internet LLC	Yarmouth	United States	98.2.193.191	Maine	04096
AS7922 Comcast Cable Communications, LLC	Highlands	United States	98.198.160.186	Texas	77562
AS7922 Comcast Cable Communications, LLC	Friendswood	United States	98.197.129.9	Texas	77546
AS7029 Windstream Communications LLC	Cornelia	United States	98.18.126.132	Georgia	30531
AS22773 Cox Communications Inc.	Roanoke	United States	98.175.41.87	Virginia	24012
AS22773 Cox Communications Inc.	El Cajon	United States	98.175.108.39	California	92020
AS22773 Cox Communications Inc.	Fairfax	United States	98.173.140.124	Virginia	22033
AS22773 Cox Communications Inc.	Fort Walton Beach	United States	98.162.183.48	Florida	32547
AS22773 Cox Communications Inc.	Phoenix	United States	98.161.212.236	Arizona	85086
AS12025 IO Capital Princess, LLC	Edison	United States	98.159.224.146	New Jersey	08837
AS10796 Time Warner Cable Internet LLC	Fairmont	United States	98.157.77.141	West Virginia	26554
AS12271 Time Warner Cable Internet LLC	Jamaica	United States	98.14.208.225	New York	11433
AS33070 Rackspace Ltd.	San Antonio	United States	98.129.136.173	Texas	78218
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Buffalo	United States	98.117.179.59	New York	14226
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Port Chester	United States	98.116.9.167	New York	10573
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Yonkers	United States	98.116.186.170	New York	10701
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Ridgewood	United States	98.113.67.130	New York	11385
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	New York	United States	98.113.248.89	New York	10128
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Clifton	United States	98.109.112.121	New Jersey	07011
AS33363 BRIGHT HOUSE NETWORKS, LLC	Farmington	United States	97.70.188.244	Michigan	48334

AS209 Qwest Communications Company, LLC	Cedar Rapids	United States	97.127.143.242	Iowa	52402
AS209 Qwest Communications Company, LLC	Albuquerque	United States	97.123.120.119	New Mexico	87109
AS209 Qwest Communications Company, LLC	Denver	United States	97.122.76.64	Colorado	80211
AS209 Qwest Communications Company, LLC	Boise	United States	97.121.11.85	Idaho	83701
AS209 Qwest Communications Company, LLC	Omaha	United States	97.119.71.202	Nebraska	68127
AS209 Qwest Communications Company, LLC	Tacoma	United States	97.113.90.244	Washington	98422
AS33363 BRIGHT HOUSE NETWORKS, LLC	Dunedin	United States	97.106.157.64	Florida	34698
AS33363 BRIGHT HOUSE NETWORKS, LLC	Melbourne Beach	United States	97.104.91.40	Florida	32951
AS33363 BRIGHT HOUSE NETWORKS, LLC	Kissimmee	United States	97.104.38.136	Florida	34759
AS33363 BRIGHT HOUSE NETWORKS, LLC	Saint Cloud	United States	97.104.147.20	Florida	34769
AS16527 Guadalupe Valley Telephone Cooperative, Inc.	Gonzales	United States	96.8.238.158	Texas	78629
AS3292 Tele Danmark	Amsterdam	Netherlands	96.7.70.221	North Holland	1091
AS3292 Tele Danmark	Amsterdam	Netherlands	96.7.65.100	North Holland	1091
AS7922 Comcast Cable Communications, LLC	Houston	United States	96.68.70.218	Texas	77019
AS4181 TDS TELECOM	Blue Ridge	United States	96.61.178.27	Georgia	30513
AS4181 TDS TELECOM	Sanford	United States	96.60.51.156	Michigan	48657
AS33363 BRIGHT HOUSE NETWORKS, LLC	Riverview	United States	96.59.222.99	Florida	33569
AS33363 BRIGHT HOUSE NETWORKS, LLC	Zephyrhills	United States	96.58.31.115	Florida	33541
AS20115 Charter Communications	Buffalo	United States	96.33.226.93	Minnesota	55313
AS20115 Charter Communications	Gainesville	United States	96.32.193.10	Georgia	30501
AS136393 Symphony Communication (Thailand) PCL.	Chatuchak	Thailand	96.30.101.195	Bangkok	10800
AS10796 Time Warner Cable Internet LLC	Louisville	United States	96.29.211.126	Kentucky	40220
AS10796 Time Warner Cable Internet LLC	Nicholasville	United States	96.28.85.139	Kentucky	40356

AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Arlington	United States	96.255.15.97	Virginia	22207
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Princeton	United States	96.248.77.254	New Jersey	08540
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Kearny	United States	96.242.157.91	New Jersey	07032
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Haledon	United States	96.242.143.192	New Jersey	07508
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Woodbridge	United States	96.241.215.3	Virginia	22193
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Hagerstown	United States	96.239.129.127	Maryland	21740
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Cranston	United States	96.233.155.94	Rhode Island	02920
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Upper Marlboro	United States	96.231.172.216	Maryland	20774
AS11232 Midcontinent Communications	West Fargo	United States	96.2.88.162	North Dakota	58078
AS11492 Cable One, Inc.	Idaho Falls	United States	96.19.214.8	Idaho	83404
AS12389 PJSC Rostelecom	Urmary	Russia	95.81.207.217	Chuvashia	429400
AS42682 JSC ER-Telecom Holding	Nizhniy Novgorod	Russia	95.79.183.2	Nizhegorodskaya Oblast'	603002
AS12389 PJSC Rostelecom	Novotroitsk	Russia	95.71.159.157	Orenburgskaya Oblast'	462363
AS9198 JSC Kazakhtelecom	Karagandy	Kazakhstan	95.57.64.167	Qaraghandy Oblysy	
AS61406 Zavod RTA Ltd.	Angarsk	Russia	95.46.15.120	Irkutskaya Oblast'	665800
AS6739 Vodafone Ono, S.A.	Ciudad Real	Spain	95.39.187.120	Castille-La Mancha	13003
AS9145 EWE-Tel GmbH	Bremen	Germany	95.33.67.220	Bremen	28209
AS3269 Telecom Italia	Pontedera	Italy	95.252.104.54	Tuscany	56025
AS3269 Telecom Italia	Albiolo	Italy	95.251.193.240	Lombardy	22070
AS3269 Telecom Italia	Milan	Italy	95.249.255.117	Lombardy	20127
AS3269 Telecom Italia	Castrovillari	Italy	95.243.166.141	Calabria	87012
AS3269 Telecom Italia	Maddaloni	Italy	95.241.118.54	Campania	81024
AS3269 Telecom Italia	Brescia	Italy	95.232.62.172	Lombardy	25100
AS3269 Telecom Italia	Cadelbosco di Sopra	Italy	95.227.188.32	Emilia-Romagna	42023
AS3269 Telecom Italia	Verona	Italy	95.225.25.155	Veneto	37122
AS6830 Liberty Global Operations B.V.	Essen	Germany	95.222.179.129	North Rhine-Westphalia	45259

AS12714 Net By Net Holding LLC	Moscow	Russia	95.220.50.251	Moscow	102128
AS12715 Orange Espagne S.A.U.	Valdepenas	Spain	95.22.104.208	Castille-La Mancha	13300
AS49505 OOO Network of data-centers Selectel	Saint Petersburg	Russia	95.213.236.69	St.-Petersburg	
AS12389 PJSC Rostelecom	Tomsk	Russia	95.191.46.210	Tomskaya Oblast'	634050
AS20811 Brennercom S.p.A.	Rovereto	Italy	95.171.61.182	Trentino-Alto Adige	38068
AS12715 Orange Espagne S.A.U.	Bilbao	Spain	95.16.80.113	Basque Country	48001
AS8559 kabelplus GmbH	Oberpullendorf	Austria	95.143.232.253	Burgenland	7350
AS49981 WorldStream B.V.	Hamburg	Germany	95.141.28.22	Hamburg	20095
AS30922 MTS PJSC	Novosibirsk	Russia	95.131.13.86	Novosibirskaya Oblast'	630004
AS31577 Prored Comunicaciones, S.L.	Beniparrell	Spain	95.129.118.135	Valencia	46469
AS3352 Telefonica De Espana	Palma	Spain	95.123.109.182	Balearic Islands	07001
AS3352 Telefonica De Espana	Vic	Spain	95.122.4.18	Catalonia	08500
AS3352 Telefonica De Espana	Torreldones	Spain	95.120.96.126	Madrid	28250
AS6805 Telefonica Germany	Karlsruhe	Germany	95.113.208.114	Baden-Württemberg Region	76227
AS28812 PJSC Bashinformsvyaz	Ufa	Russia	95.110.20.18	Bashkortostan	
AS8966 Emirates Telecommunications Corporation	Saint Paul	United States	95.101.51.39	Minnesota	
AS5607 Sky UK Limited	Camberley	United Kingdom	94.9.80.79	England	GU15
AS3269 Telecom Italia	Rome	Italy	94.89.36.172	Latium	
AS199738 Wiva Telecom S.L.	Caniles	Spain	94.76.181.141	Andalusia	18810
AS6799 OTEnet S.A.	Athens	Greece	94.70.243.225	Attica	
AS12353 Vodafone Portugal - Comunicacoes Pessoais S.A.	Santo Tirso	Portugal	94.61.28.160	Porto	4780-000
AS12353 Vodafone Portugal - Comunicacoes Pessoais S.A.	Braga	Portugal	94.61.176.237	Braga	4700-000
AS5607 Sky UK Limited	Hove	United Kingdom	94.6.211.2	England	BN3
AS12389 PJSC Rostelecom	Perm	Russia	94.50.179.234	Perm Krai	614065
AS5607 Sky UK Limited	Leyland	United Kingdom	94.5.247.53	England	PR25
	Bletchley	United Kingdom	94.45.232.104	England	MK3

AS35805 JSC Silknet	Tbilisi	Georgia	94.43.152.24	K'alak'i T'bilisi	
AS5607 Sky UK Limited	Roehampton	United Kingdom	94.4.179.19	England	SW15
AS8612 Tiscali SpA	Monza	Italy	94.36.239.234	Lombardy	20900
AS25513 OJS Moscow city telephone network	Moscow	Russia	94.29.46.44	Moscow	102128
AS12389 PJSC Rostelecom	Tula	Russia	94.28.223.200	Tul'skaya Oblast'	300012
AS48526 Tango S.A.	Lintgen	Luxembourg	94.252.111.101	Mersch	L-7458
AS34743 Nashnet Ltd	Kiev	Ukraine	94.244.173.238	Kyiv City	02232
AS29119 ServiHosting Networks S.L.	Bucharest	Romania	94.24.40.88	Bucuresti	
AS42555 OPTICCOM-BULGARIA Ltd.	Sofia	Bulgaria	94.236.136.139	Sofia-Capital	1000
AS6848 Telenet BVBA	Mol	Belgium	94.226.82.111	Flanders	2400
AS6848 Telenet BVBA	Kortenbergh	Belgium	94.225.219.46	Flanders	3070
AS3209 Vodafone GmbH	Chemnitz	Germany	94.222.40.108	Saxony	09130
AS3209 Vodafone GmbH	Cologne	Germany	94.221.100.163	North Rhine-Westphalia	50676
AS3209 Vodafone GmbH	Fritzlar	Germany	94.219.226.104	Hesse	34560
AS3209 Vodafone GmbH	Munich	Germany	94.216.81.142	Bavaria	80796
AS5607 Sky UK Limited	Middlesbrough	United Kingdom	94.194.57.48	England	TS6
AS5607 Sky UK Limited	Prestonpans	United Kingdom	94.194.164.60	Scotland	EH32
AS5607 Sky UK Limited	Doncaster	United Kingdom	94.193.126.244	England	DN2
AS5607 Sky UK Limited	Whitstable	United Kingdom	94.192.221.156	England	CT5
AS5607 Sky UK Limited	Fareham	United Kingdom	94.192.112.161	England	PO16
AS43478 JSC ER-Telecom Holding	Novosibirsk	Russia	94.180.37.14	Novosibirskaya Oblast'	630020
AS8866 Vivacom	Sofia	Bulgaria	94.155.118.111	Sofia-Capital	1000
AS5607 Sky UK Limited	New Malden	United Kingdom	94.15.70.38	England	KT3
AS21503 Availo Networks AB	Stockholm (Södermalm)	Sweden	94.136.95.128	Stockholm	
AS5607 Sky UK Limited	Wellingborough	United Kingdom	94.13.206.22	England	NN8
AS5607 Sky UK Limited	Sheerness	United Kingdom	94.12.187.35	England	ME12
AS47377 Orange Belgium SA	Bruges	Belgium	94.110.182.81	Flanders	8210
AS25459 NedZone Internet BV	Dordrecht	Netherlands	94.103.150.228	South Holland	3319
AS47764 Limited liability company Mail.Ru	Moscow	Russia	94.100.178.98	Moscow	

AS34235 ASPSERVEUR	La Ciotat	France	93.93.190.149	Provence-Alpes-Côte d'Azur	13600
AS62023 NYNEX satellite OHG	Frankfurt am Main	Germany	93.91.88.138	Hesse	
AS48830 TransEuroCom LLC	Baku	Azerbaijan	93.88.83.235	Baku City	
AS8400 TELEKOM SRBIJA a.d.	Belgrade	Serbia	93.86.169.8	Belgrade	
AS15557 SFR SA	Le Creusot	France	93.8.39.43	Bourgogne-Franche-Comte	71200
AS25229 Volia	Ternopil	Ukraine	93.76.91.188	Ternopil's'ka Oblast'	46001
AS25229 Volia	Kiev	Ukraine	93.73.193.93	Kyiv City	02094
AS25229 Volia	Kiev	Ukraine	93.72.84.190	Kyiv City	03057
AS15557 SFR SA	Paris	France	93.31.62.60	Île-de-France	75018
AS15557 SFR SA	Calais	France	93.27.193.55	Hauts-de-France	62100
AS3320 Deutsche Telekom AG	Krefeld	Germany	93.239.169.98	North Rhine-Westphalia	47798
AS3320 Deutsche Telekom AG	Gronau	Germany	93.238.94.253	North Rhine-Westphalia	48599
AS3320 Deutsche Telekom AG	Emmerich	Germany	93.238.140.172	North Rhine-Westphalia	46446
AS3320 Deutsche Telekom AG	Asslar	Germany	93.236.207.104	Hesse	35614
AS3320 Deutsche Telekom AG	Ravensburg	Germany	93.235.110.65	Baden-Württemberg Region	88214
AS3320 Deutsche Telekom AG	Waiblingen	Germany	93.235.11.50	Baden-Württemberg Region	71332
AS3320 Deutsche Telekom AG	Bockhorn	Germany	93.228.71.172	Bavaria	85461
AS3320 Deutsche Telekom AG	Essen	Germany	93.228.127.179	North Rhine-Westphalia	45145
AS3320 Deutsche Telekom AG	Regensburg	Germany	93.223.59.65	Bavaria	93047
AS3320 Deutsche Telekom AG	Wurzburg	Germany	93.222.67.230	Bavaria	97080
AS3320 Deutsche Telekom AG	Bautzen	Germany	93.220.130.150	Saxony	01877
AS3320 Deutsche Telekom AG	Calau	Germany	93.218.216.96	Brandenburg	03205
AS3320 Deutsche Telekom AG	Hanover	Germany	93.218.104.236	Lower Saxony	30163
AS3320 Deutsche Telekom AG	Münster	Germany	93.217.83.16	North Rhine-Westphalia	48149
AS3320 Deutsche Telekom AG	Helmbrechts	Germany	93.216.172.79	Bavaria	95233
AS3320 Deutsche Telekom AG	Münster	Germany	93.215.68.66	North Rhine-Westphalia	48155
AS3320 Deutsche Telekom AG	Passau	Germany	93.210.42.144	Bavaria	94034

AS3320 Deutsche Telekom AG	Heinsberg	Germany	93.205.91.168	North Rhine-Westphalia	52525
AS3320 Deutsche Telekom AG	Haslach im Kinzigtal	Germany	93.205.184.180	Baden-Württemberg Region	77716
AS3320 Deutsche Telekom AG	Warendorf	Germany	93.204.10.88	North Rhine-Westphalia	48231
AS3320 Deutsche Telekom AG	Krefeld	Germany	93.201.241.56	North Rhine-Westphalia	47802
AS3320 Deutsche Telekom AG	Babenhausen	Germany	93.197.120.64	Hesse	64832
AS31242 3S S.A.	Tarnowskie Gory	Poland	93.179.239.32	Silesia	42-612
AS13036 T-Mobile Czech Republic a.s.	Prague	Czechia	93.153.35.133	Hlavni mesto Praha	130 00
AS12389 PJSC Rostelecom	Penza	Russia	93.124.24.141	Penzenskaya Oblast'	440000
AS12353 Vodafone Portugal - Comunicacoes Pessoais S.A.	Porto	Portugal	93.108.186.90	Porto	4000-000
AS12353 Vodafone Portugal - Comunicacoes Pessoais S.A.	Lisbon	Portugal	93.108.150.95	Lisbon	1200-181
AS34779 T-2, d.o.o.	Ljubljana	Slovenia	93.103.5.32	Ljubljana	1000
AS5384 Emirates Telecommunications Corporation	Abu Dhabi	United Arab Emirates	92.99.26.62	Abu Dhabi	
AS3209 Vodafone GmbH	Gauting	Germany	92.74.34.220	Bavaria	82131
AS3209 Vodafone GmbH	Dusseldorf	Germany	92.72.25.2	North Rhine-Westphalia	40211
AS3209 Vodafone GmbH	Duisburg	Germany	92.72.196.19	North Rhine-Westphalia	47259
AS16160 SWAN, a.s.	Bratislava	Slovakia	92.60.58.38	Bratislava	851 01
AS21299 2DAY Telecom LLP	Petropavl	Kazakhstan	92.55.166.53	North Kazakhstan	
AS59577 Kalita Roman Bogdanovych	Lviv	Ukraine	92.253.246.41	L'vivs'ka Oblast'	79044
	Perm (Dzerzhinskiy Rayon)	Russia	92.240.196.227	Perm	
AS5089 Virgin Media Limited	Solihull	United Kingdom	92.237.34.8	England	B92
AS6805 Telefonica Germany	Schortens	Germany	92.230.26.127	Lower Saxony	26419
AS6805 Telefonica Germany	Duisburg	Germany	92.228.36.69	North Rhine-Westphalia	45478
AS16276 OVH SAS	Paris	France	92.222.237.209	Île-de-France	75001
AS3209 Vodafone GmbH	Frankfurt am Main	Germany	92.215.116.233	Hesse	
AS3209 Vodafone GmbH	Frankfurt am Main	Germany	92.213.37.234	Hesse	
AS3209 Vodafone GmbH	Frankfurt am Main	Germany	92.212.116.130	Hesse	
AS3209 Vodafone GmbH	Freiburg	Germany	92.211.113.25	Baden-Württemberg Region	79106
AS3209 Vodafone GmbH	Hude	Germany	92.210.95.147	Lower Saxony	27798

AS16202 PrimaCom Berlin GmbH	Halle	Germany	92.206.154.96	Saxony-Anhalt	06126
AS20676 QSC AG	Schwabmunchen	Germany	92.194.78.91	Bavaria	86830
AS20676 QSC AG	Munich	Germany	92.194.109.186	Bavaria	80339
AS12479 Orange Espagne SA	Denia	Spain	92.189.40.250	Valencia	03700
AS12479 Orange Espagne SA	Elche	Spain	92.189.251.40	Valencia	03203
AS12479 Orange Espagne SA	Benidorm	Spain	92.189.185.184	Valencia	03503
AS12479 Orange Espagne SA	Alicante	Spain	92.189.167.240	Valencia	03003
AS12479 Orange Espagne SA	Madrid	Spain	92.185.22.98	Madrid	28223
AS12479 Orange Espagne SA	Madrid	Spain	92.176.212.24	Madrid	28003
AS13285 TalkTalk	Godalming	United Kingdom	92.16.246.245	England	GU7
AS43234 TalkTalk	Torquay	United Kingdom	92.13.167.61	England	TQ2
AS34164 Akamai International B.V.	Paris	France	92.123.75.174	Île-de-France	
AS6830 Liberty Global Operations B.V.	Someren	Netherlands	92.110.240.103	North Brabant	5711
AS9145 EWE-Tel GmbH	Oldenburg	Germany	91.97.18.204	Lower Saxony	26125
AS41334 Manche Telecom	Torigni-sur-Vire	France	91.88.106.72	Normandy	50160
AS12301 Invitech Megoldások Zrt.	Szigetszentmiklos	Hungary	91.83.92.202	Pest megye	2311
AS12301 Invitech Megoldások Zrt.	Budaörs	Hungary	91.83.206.144	Pest	
AS12301 Invitech Megoldások Zrt.	Szigethalom	Hungary	91.82.49.139	Pest megye	2315
AS8359 MTS PJSC	Moscow	Russia	91.77.132.106	Moscow	102128
AS15557 SFR SA	La Baule-Escoublac	France	91.69.242.23	Pays de la Loire	44500
AS15557 SFR SA	La Seyne-sur-Mer	France	91.69.141.19	Provence-Alpes-Côte d'Azur	
AS15557 SFR SA	Roquebrune-sur-Argens	France	91.68.82.46	Provence-Alpes-Côte d'Azur	83520
AS3320 Deutsche Telekom AG	Goldebek	Germany	91.6.3.120	Schleswig-Holstein	25862
AS3320 Deutsche Telekom AG	Lauenau	Germany	91.51.84.29	Lower Saxony	31867
AS3320 Deutsche Telekom AG	Auendorf	Germany	91.47.145.36	Baden-Württemberg Region	73326
AS3320 Deutsche Telekom AG	Wehretal	Germany	91.44.178.112	Hesse	37287
AS3320 Deutsche Telekom AG	Goldbach	Germany	91.42.63.7	Bavaria	63773

AS3320 Deutsche Telekom AG	Neckargemund	Germany	91.35.240.63	Baden-Württemberg Region	69151
AS9145 EWE-Tel GmbH	Oldenburg	Germany	91.249.152.51	Lower Saxony	
AS59611 GIG@NET Internet w Twoim Domu P. Jastrzebski	Grajewo	Poland	91.245.84.163	Podlasie	19-200
AS59567 Intellect Dnepr Telecom LLC	Dnipro	Ukraine	91.243.195.108	Dnipro	49020
AS12289 Svyazekspert LLC.	Nizhny Novgorod	Russia	91.231.190.139	Nizhnij Novgorod	
AS57126 ADRIA SRL	Suceava	Romania	91.230.234.11	Suceava	720001
AS3320 Deutsche Telekom AG	Sindelfingen	Germany	91.23.86.235	Baden-Württemberg Region	71063
AS56887 Sc Technological Srl	Moreni	Romania	91.228.141.199	Judetul Dambovita	
AS44686 SpaceNet LLC	Kropyvnytskyi	Ukraine	91.226.59.130	Kropyvnytskyi	25031
AS51399 Fiberway Sp. z o.o.	Gdow	Poland	91.218.200.90	Lesser Poland Voivodeship	32-420
AS49650 Everex Comunicaciones, S.A.	San Agustin del Guadalix	Spain	91.215.66.197	Madrid	28750
AS197172 NICENET PLUS ltd.	Kiev	Ukraine	91.198.4.104	Kyiv City	04073
AS35432 Cablenet Communication Systems Ltd	Nicosia	Cyprus	91.184.222.204	Nicosia	
AS3 Massachusetts Institute of Technology	Kortenberg	Belgium	91.182.182.126	Flanders	3070
AS3320 Deutsche Telekom AG	Giessen	Germany	91.16.36.215	Hesse	35398
AS719 Elisa Oyj	Tervakoski	Finland	91.153.129.158	Tavastia Proper	12400
AS719 Elisa Oyj	Espoo	Finland	91.152.176.45	Uusimaa	02770
AS3320 Deutsche Telekom AG	Hemhofen	Germany	91.15.32.249	Bavaria	91334
AS31297 Axian Kft.	Budapest (XI. kerület)	Hungary	91.147.241.111	Budapest	
AS8273 Verdo Tele A/S	Randers	Denmark	91.144.250.109	Central Jutland	8920
AS197280 VIP-TELECOM-SERVICE Ltd.	Moscow	Russia	91.142.75.241	Moscow	125414
AS41736 Nova Networks Ltd	Cork	Ireland	91.142.102.213	Munster	T23
AS43205 Bulsatcom EAD	Gulubovo	Bulgaria	91.139.143.209	Oblast Stara Zagora	6477
AS24822 OPTICON Telekommunikacios Halozati Szolgaltato	Kunszentmiklos	Hungary	91.137.205.3	Bács-Kiskun	6090
AS6855 Slovak Telecom, a. s.	Bratislava	Slovakia	91.127.169.13	Bratislava	811 01
AS8997 PJSC Rostelecom	St Petersburg	Russia	91.122.100.237	St.-Petersburg	190817

AS8447 A1 Telekom Austria AG	Vienna (Alsergrund)	Austria	91.114.3.27	Vienna	
AS8447 A1 Telekom Austria AG	Vienna	Austria	91.114.252.150	Vienna	1180
AS28753 Leaseweb Deutschland GmbH	Neuberg	Germany	91.109.24.62	Saxony	08236
AS48781 AVK-computer ltd	Lyubertsy	Russia	91.107.62.183	Moscow Oblast	140003
AS48781 AVK-computer ltd	Lyubertsy	Russia	91.107.62.152	Moscow Oblast	140003
AS3320 Deutsche Telekom AG	Nellingen	Germany	91.1.249.252	Baden-Württemberg Region	89191
AS3320 Deutsche Telekom AG	Kirchheimbolanden	Germany	91.0.218.70	Rheinland-Pfalz	67292
AS12479 Orange Espagne SA	Jerez de la Frontera	Spain	90.75.149.141	Andalusia	11406
AS3301 Telia Company AB	Farsta	Sweden	90.229.33.146	Stockholm	
AS5607 Sky UK Limited	Bristol	United Kingdom	90.221.132.254	England	BS1
AS5607 Sky UK Limited	Rochdale	United Kingdom	90.220.219.113	England	OL16
AS5607 Sky UK Limited	Cannock	United Kingdom	90.220.166.170	England	WS11
AS5607 Sky UK Limited	Norwich	United Kingdom	90.217.175.46	England	NR3
AS5607 Sky UK Limited	Newbury	United Kingdom	90.215.209.25	England	RG14
AS5607 Sky UK Limited	Leicester	United Kingdom	90.214.39.200	England	LE1
AS5607 Sky UK Limited	Huntingdon	United Kingdom	90.213.215.74	England	PE29
AS5607 Sky UK Limited	Aberdeen	United Kingdom	90.212.143.114	Scotland	AB11
AS5607 Sky UK Limited	London	United Kingdom	90.211.81.29	England	EC2V
AS5607 Sky UK Limited	Glasgow	United Kingdom	90.211.8.142	Scotland	G42
AS5607 Sky UK Limited	Birmingham	United Kingdom	90.211.242.85	England	B15
AS5607 Sky UK Limited	Birmingham	United Kingdom	90.211.242.254	England	B15
AS5607 Sky UK Limited	Birmingham	United Kingdom	90.211.241.153	England	B15
AS5607 Sky UK Limited	Chatham	United Kingdom	90.208.92.120	England	ME4
AS5607 Sky UK Limited	Birmingham	United Kingdom	90.206.124.172	England	B15
AS5607 Sky UK Limited	Newcastle upon Tyne	United Kingdom	90.205.46.89	England	NE2

AS5607 Sky UK Limited	Bournemouth	United Kingdom	90.202.77.33	England	BH2
AS5607 Sky UK Limited	Birmingham	United Kingdom	90.197.200.99	England	B15
AS5607 Sky UK Limited	Newcastle upon Tyne	United Kingdom	90.194.237.118	England	NE2
AS5607 Sky UK Limited	London	United Kingdom	90.194.213.177	England	EC2V
AS5607 Sky UK Limited	Northampton	United Kingdom	90.194.182.238	England	NN1
AS5607 Sky UK Limited	Rochester	United Kingdom	90.193.57.88	England	ME1
AS5607 Sky UK Limited	Grays	United Kingdom	90.192.56.27	England	RM17
AS5607 Sky UK Limited	Basildon	United Kingdom	90.192.55.208	England	SS16
AS3249 Telia Eesti AS	Elva	Estonia	90.190.217.59	Tartu	
AS39554 Tele Danmark	Hjørring	Denmark	90.185.185.125	North Denmark	9800
AS12479 Orange Espagne SA	Zaragoza	Spain	90.168.51.230	Aragon	50008
AS12479 Orange Espagne SA	Alcalá de Henares	Spain	90.165.225.251	Madrid	28801
AS20712 Andrews & Arnold Ltd	Bridgwater	United Kingdom	90.155.19.59	England	TA5
AS1257 TELE2	Bromma	Sweden	90.142.30.137	Stockholm	161 00
AS5410 Bouygues Telecom SA	Crosne	France	89.81.174.140	Île-de-France	
AS6830 Liberty Global Operations B.V.	Warsaw	Poland	89.77.116.91	Mazovia	00-202
AS31034 Aruba S.p.A.	Arezzo	Italy	89.46.106.76	Tuscany	52100
AS200603 Job Masters SRL	Bucharest	Romania	89.32.43.117	Bucuresti	031748
AS42926 Radore Veri Merkezi Hizmetleri A.S.	Adana	Turkey	89.252.187.212	Adana	
AS8881 1&1 Versatel Deutschland GmbH	Wuppertal	Germany	89.247.250.98	North Rhine-Westphalia	42285
AS13036 T-Mobile Czech Republic a.s.	Prague	Czechia	89.24.139.177	Hlavni mesto Praha	130 00
AS21021 Multimedia Polska S.A.	Mielec	Poland	89.231.246.149	Subcarpathian Voivodeship	39-300
AS47438 Pskovline Ltd.	Pskov	Russia	89.23.8.239	Pskovskaya Oblast'	180000
AS21021 Multimedia Polska S.A.	Kalisz	Poland	89.228.213.59	Greater Poland	62-800
AS31042 Serbia BroadBand-Srpske Kablovske mreze d.o.o.	Belgrade	Serbia	89.216.103.40	Belgrade	
AS12695 JSC Digital Network	Zheleznodorozhnyy	Russia	89.208.236.112	Moscow Oblast	143988
AS41475 SDK Ltd.	Moscow	Russia	89.20.55.56	Moscow	115573

AS13045 htp GmbH	Hanover	Germany	89.183.13.188	Lower Saxony	30453
AS6830 Liberty Global Operations B.V.	Prague	Czechia	89.176.28.29	Hlavni mesto Praha	186 00
AS8359 MTS PJSC	Lobnya	Russia	89.175.101.85	Moscow Oblast	141730
AS31514 LLC Multiscan	Moscow	Russia	89.169.175.179	Moscow	102128
AS12824 home.pl S.A.	Szczecin	Poland	89.161.174.46	West Pomeranian Voivodeship	
AS6830 Liberty Global Operations B.V.	Villach	Austria	89.16.211.122	Carinthia	9500
AS12389 PJSC Rostelecom	Cheboksary	Russia	89.151.157.57	Chuvashia	428000
AS3257 GTT Communications Inc.	Neu Isenburg	Germany	89.149.178.192	Hesse	
AS25880 Public joint-stock company RUTELEKOM	Yurga	Russia	89.145.128.16	Kemerovskaya Oblast'	652050
AS6739 Vodafone Ono, S.A.	Alcalá de Henares	Spain	89.141.80.221	Madrid	28804
AS12479 Orange Espagne SA	Seville	Spain	89.130.3.5	Andalusia	41013
AS6805 Telefonica Germany	Frankfurt am Main	Germany	89.13.44.80	Hesse	60594
AS6805 Telefonica Germany	Esslingen am Neckar	Germany	89.13.210.240	Baden-Württemberg Region	73728
AS6805 Telefonica Germany	Stuttgart	Germany	89.13.120.249	Baden-Württemberg Region	70173
AS12479 Orange Espagne SA	Bollullos par del Condado	Spain	89.129.148.115	Andalusia	21710
AS12479 Orange Espagne SA	Xàtiva	Spain	89.129.124.201	Valencia	46800
AS12353 Vodafone Portugal - Comunicacoes Pessoais S.A.	Lisbon	Portugal	89.115.93.181	Lisbon	1200-181
AS12353 Vodafone Portugal - Comunicacoes Pessoais S.A.	Cruz Quebrada	Portugal	89.115.224.114	Lisbon	1495-706
AS12353 Vodafone Portugal - Comunicacoes Pessoais S.A.	Braga	Portugal	89.114.95.123	Braga	4700-000
AS25144 Telekomunikacije Republike Srpske akcionarsko drustvo Banja Luka	Gradacac	Bosnia and Herzegovina	89.111.246.218	Federation of B&H;	
AS15659 NextGenTel AS	Oslo	Norway	89.11.213.142	Oslo County	0001
AS42248 Vida optics TVV Ltd.	Vidin	Bulgaria	89.106.125.94	Oblast Vidin	3700
AS8422 NetCologne GmbH	Cologne	Germany	89.1.151.151	North Rhine-Westphalia	50667
AS2119 Telenor Norge AS	Meraker	Norway	88.91.19.238	Nord-Trondelag Fylke	7530
AS3352 Telefonica De Espana	Astorga	Spain	88.9.54.165	Castille and León	24700

AS3352 Telefonica De Espana	Mostoles	Spain	88.9.221.41	Madrid	28933
AS2119 Telenor Norge AS	Stavanger	Norway	88.88.37.216	Rogaland Fylke	4013
AS3209 Vodafone GmbH	Kaarst	Germany	88.78.126.230	North Rhine-Westphalia	41564
AS3209 Vodafone GmbH	Weisswasser	Germany	88.75.34.181	Saxony	02943
AS3209 Vodafone GmbH	Berlin	Germany	88.75.221.129	Land Berlin	12529
AS3209 Vodafone GmbH	Herzogenrath	Germany	88.74.10.37	North Rhine-Westphalia	52134
AS3209 Vodafone GmbH	Dusseldorf	Germany	88.72.184.231	North Rhine-Westphalia	40479
AS3209 Vodafone GmbH	Hanover	Germany	88.71.229.25	Lower Saxony	30419
AS3209 Vodafone GmbH	Oldenburg	Germany	88.70.39.47	Lower Saxony	26125
AS3269 Telecom Italia	Somma Vesuviana	Italy	88.59.80.1	Campania	80049
AS3269 Telecom Italia	Monte San Giovanni Campano	Italy	88.58.6.61	Latium	03025
AS3269 Telecom Italia	Prato	Italy	88.40.242.17	Tuscany	59100
AS3352 Telefonica De Espana	Bilbao	Spain	88.26.125.110	Basque Country	48001
AS3352 Telefonica De Espana	Madrid	Spain	88.25.180.15	Madrid	28001
AS3352 Telefonica De Espana	Pontevedra	Spain	88.23.29.197	Galicia	36910
AS3352 Telefonica De Espana	Valencia	Spain	88.23.146.155	Valencia	46001
AS3352 Telefonica De Espana	Sagunto	Spain	88.23.102.54	Valencia	46500
AS16625 Akamai Technologies, Inc.	São Paulo (Vila Formosa)	Brazil	88.221.44.177	São Paulo	
AS16625 Akamai Technologies, Inc.	Dusseldorf	Germany	88.221.127.162	North Rhine-Westphalia	
AS39005 MEDI@LYS	Jargeau	France	88.219.166.170	Centre-Val de Loire	45150
AS39005 MEDI@LYS	Lailly-en-Val	France	88.219.162.94	Centre-Val de Loire	45740
AS9198 JSC Kazakhtelecom	Astana	Kazakhstan	88.204.238.5	Astana Qalasy	
AS39087 P.a.k.t LLC	St Petersburg	Russia	88.201.150.192	St.-Petersburg	194156
AS12389 PJSC Rostelecom	Samara	Russia	88.200.239.6	Samarskaya Oblast'	404146
AS3352 Telefonica De Espana	Madrid	Spain	88.20.20.209	Madrid	28019
AS12322 Free SAS	Levallois-Perret	France	88.191.60.222	Île-de-France	92300
AS12322 Free SAS	Vincennes	France	88.191.240.78	Île-de-France	94300
AS12322 Free SAS	Paris	France	88.191.108.203	Île-de-France	75020
AS12322 Free SAS	Chantepie	France	88.189.193.81	Brittany	35135
AS12322 Free SAS	Galgon	France	88.182.52.125	Nouvelle-Aquitaine	33133
AS12322 Free SAS	Besançon	France	88.181.112.205	Bourgogne-Franche-Comte	25000
AS3352 Telefonica De Espana	Rubí	Spain	88.18.101.77	Catalonia	08191
AS12322 Free SAS	Saint-Martin-d'Hères	France	88.179.50.219	Auvergne-Rhone-Alpes	38400

AS12322 Free SAS	Vallauris	France	88.178.94.25	Provence-Alpes-Côte d'Azur	06220
AS12322 Free SAS	Marseille	France	88.173.61.39	Provence-Alpes-Côte d'Azur	13002
AS12322 Free SAS	Escaudain	France	88.169.47.131	Hauts-de-France	59124
AS12322 Free SAS	Goussainville	France	88.168.35.14	Île-de-France	95190
AS12322 Free SAS	Langueux	France	88.168.246.108	Brittany	22360
AS12322 Free SAS	Onnaing	France	88.166.116.167	Hauts-de-France	59264
AS12322 Free SAS	Lentilly	France	88.165.63.17	Auvergne-Rhone-Alpes	69210
AS12322 Free SAS	Roussillon	France	88.165.221.91	Auvergne-Rhone-Alpes	38150
AS12322 Free SAS	Vaulx-en-Velin	France	88.165.154.14	Auvergne-Rhone-Alpes	69120
AS12322 Free SAS	Notre-Dame-de-Bondeville	France	88.162.15.20	Normandy	76960
AS3352 Telefonica De Espana	Girona	Spain	88.16.182.235	Catalonia	17003
AS3352 Telefonica De Espana	San Vicent del Raspeig	Spain	88.14.167.114	Valencia	03690
AS8881 1&1 Versatel Deutschland GmbH	Berlin	Germany	88.130.124.2	Land Berlin	14193
AS3352 Telefonica De Espana	Girona	Spain	88.13.205.33	Catalonia	17004
AS3352 Telefonica De Espana	Las Palmas de Gran Canaria	Spain	88.13.175.43	Canary Islands	35005
AS12322 Free SAS	Bastia	France	88.127.209.25	Corsica	20600
AS12322 Free SAS	Seltz	France	88.125.176.58	Grand-Est	67470
AS12322 Free SAS	Fréjus	France	88.124.45.116	Provence-Alpes-Côte d'Azur	83600
AS12322 Free SAS	Saint-Rambert-d'Albon	France	88.124.21.191	Auvergne-Rhone-Alpes	26140
AS12322 Free SAS	Cinq-Mars-la-Pile	France	88.121.181.86	Centre-Val de Loire	37130
AS12322 Free SAS	Saint-Ouen	France	88.120.117.236	Île-de-France	93400
AS3352 Telefonica De Espana	Tarragona	Spain	88.12.229.44	Catalonia	43002
AS8447 A1 Telekom Austria AG	Feldkirch	Austria	88.117.29.60	Vorarlberg	6800
AS8447 A1 Telekom Austria AG	Sistrans	Austria	88.116.206.245	Tyrol	
AS719 Elisa Oyj	Hyvinkäeae	Finland	88.114.76.142	Uusimaa	05800
AS5610 O2 Czech Republic, a.s.	Plana	Czechia	88.102.239.128	Plzensky kraj	348 15
AS8422 NetCologne GmbH	Cologne (Ossendorf)	Germany	87.79.164.216	North Rhine-Westphalia	
AS3 Massachusetts Institute of Technology	Brussels	Belgium	87.67.195.250	Brussels Capital	1080
AS3 Massachusetts Institute of Technology	Tertre	Belgium	87.64.165.180	Wallonia	7333
AS3269 Telecom Italia	Rome	Italy	87.6.248.163	Latium	00134
AS3269 Telecom Italia	Rome	Italy	87.6.227.50	Latium	00134

AS3292 Tele Danmark	Taastrup	Denmark	87.57.255.4	Capital Region	
AS3292 Tele Danmark	Randers	Denmark	87.56.231.241	Central Jutland	8930
AS3292 Tele Danmark	Vejle	Denmark	87.55.158.17	South Denmark	7100
AS3269 Telecom Italia	Verona	Italy	87.5.255.85	Veneto	37131
AS3269 Telecom Italia	Milan	Italy	87.5.155.69	Lombardy	20128
AS3269 Telecom Italia	Albiolo	Italy	87.5.116.70	Lombardy	22070
AS3269 Telecom Italia	Pomigliano d'Arco	Italy	87.26.114.65	Campania	80038
AS35765 Gemeindewerke Telfs Ges.m.b.H	Telfs	Austria	87.247.216.80	Tyrol	6410
AS35765 Gemeindewerke Telfs Ges.m.b.H	Telfs	Austria	87.247.196.38	Tyrol	6410
AS21412 UAB Cgates	Kaunas	Republic of Lithuania	87.247.117.127	Kaunas	44001
AS12708 TalkTalk	Irlam (Northbank House)	United Kingdom	87.242.221.80	England	
AS15703 True B.V.	Wijk aan Zee	Netherlands	87.233.220.114	North Holland	1949
AS6866 Cyprus Telecommunications Authority	Nicosia	Cyprus	87.228.231.124	Nicosia	
AS12715 Orange Espagne S.A.U.	León	Spain	87.220.169.175	Castille and León	24005
AS12715 Orange Espagne S.A.U.	Alcobendas	Spain	87.218.135.191	Madrid	
AS13127 Tele 2 Nederland B.V.	Haarlem	Netherlands	87.210.157.206	North Holland	2035
AS34245 Magnet Networks Limited	Dublin	Ireland	87.198.112.123	Leinster	D02
AS3320 Deutsche Telekom AG	Oldenburg	Germany	87.190.70.198	Lower Saxony	
AS3320 Deutsche Telekom AG	Gernsheim	Germany	87.189.224.76	Hesse	64579
AS3320 Deutsche Telekom AG	Frankfurt am Main	Germany	87.186.137.166	Hesse	
AS3320 Deutsche Telekom AG	Frankfurt am Main	Germany	87.185.125.253	Hesse	60433
AS3320 Deutsche Telekom AG	Traben-Trarbach	Germany	87.178.115.207	Rheinland-Pfalz	56841
AS3320 Deutsche Telekom AG	Hassfurt	Germany	87.176.92.19	Bavaria	97437
AS3320 Deutsche Telekom AG	Burghausen	Germany	87.176.69.77	Bavaria	84489
AS3320 Deutsche Telekom AG	Simonswald	Germany	87.174.48.85	Baden-Württemberg Region	79263
AS3320 Deutsche Telekom AG	Rothenburg upon Tauber	Germany	87.164.62.129	Bavaria	91541
AS3320 Deutsche Telekom AG	Uttenweiler	Germany	87.156.4.116	Baden-Württemberg Region	88524

AS3320 Deutsche Telekom AG	Münster	Germany	87.155.14.252	North Rhine-Westphalia	48149
AS3269 Telecom Italia	Rho	Italy	87.15.15.24	Lombardy	20017
AS3320 Deutsche Telekom AG	Schwerin	Germany	87.143.255.26	Mecklenburg-Vorpommern	19053
AS3320 Deutsche Telekom AG	Frankfurt am Main	Germany	87.140.59.77	Hesse	
AS3320 Deutsche Telekom AG	Kassel	Germany	87.139.217.72	Hesse	34119
AS3269 Telecom Italia	Brescia	Italy	87.13.67.136	Lombardy	25100
AS8881 1&1 Versatel Deutschland GmbH	Rendsburg	Germany	87.122.172.180	Schleswig-Holstein	24768
AS8881 1&1 Versatel Deutschland GmbH	Flensburg	Germany	87.122.139.234	Schleswig-Holstein	24943
AS52055 Mayak smart services Ltd.	Munich (Trudering-Riem)	Germany	87.120.202.191	Bavaria	
AS3269 Telecom Italia	Enna	Italy	87.12.193.104	Sicily	94100
AS12578 SIA Lattelecom	Riga	Latvia	87.110.85.112	Riga	
AS3269 Telecom Italia	Rende	Italy	87.11.115.219	Calabria	87036
AS8560 1&1 Internet SE	Rheinmünster	Germany	87.106.238.123	Baden-Württemberg	
AS12741 Netia SA	Legnica	Poland	87.105.40.85	Lower Silesia	59-220
AS12389 PJSC Rostelecom	Leninsk-Kuznetsky	Russia	87.103.213.44	Kemerovskaya Oblast'	652507
AS3269 Telecom Italia	Sesto Fiorentino	Italy	87.1.23.216	Tuscany	50019
AS3269 Telecom Italia	Novara	Italy	87.0.68.16	Piedmont	28100
AS1136 KPN B.V.	Amersfoort	Netherlands	86.90.237.200	Provincie Utrecht	3811
AS15557 SFR SA	Nice	France	86.67.77.67	Provence-Alpes-Côte d'Azur	06000
AS39699 Lounea Palvelut Oy	Halikko	Finland	86.60.174.144	Finland Proper	24800
AS3212 Telemach UG d.o.o.	Maribor	Slovenia	86.58.69.155	Maribor	2000
AS6697 Republican Unitary Telecommunication Enterprise Beltelecom	Minsk	Belarus	86.57.153.114	Minsk City	220002
AS6830 Liberty Global Operations B.V.	Brno	Czechia	86.49.61.100	South Moravian	614 00
AS9050 Telekom Romania Communication S.A	Bucharest	Romania	86.34.47.158	Bucuresti	050019
AS5089 Virgin Media Limited	Bradford	United Kingdom	86.3.9.43	England	BD5
AS5089 Virgin Media Limited	Bristol	United Kingdom	86.26.102.150	England	BS1
AS5089 Virgin Media Limited	Manchester	United Kingdom	86.22.126.155	England	M30
AS5089 Virgin Media Limited	Warrington	United Kingdom	86.19.56.104	England	WA1

AS2856 British Telecommunications PLC	Borehamwood	United Kingdom	86.154.163.48	England	WD6
AS5089 Virgin Media Limited	Reading	United Kingdom	86.15.129.174	England	RG30
AS2856 British Telecommunications PLC	Wimbledon	United Kingdom	86.147.178.176	England	SW19
AS2856 British Telecommunications PLC	Loughton	United Kingdom	86.132.151.31	England	IG10
AS8708 RCS & RDS	Satu Mare	Romania	86.126.215.194	Satu Mare	440004
AS8708 RCS & RDS	Alexandria	Romania	86.124.227.115	Teleorman	140001
AS8708 RCS & RDS	Cluj-Napoca	Romania	86.121.89.4	Judetul Cluj	400001
AS8708 RCS & RDS	Bucharest	Romania	86.121.198.122	Bucuresti	050019
AS15585 Finanzdirektion des Kantons Bern	Bern	Switzerland	86.118.86.215	Bern	3006
AS12586 GHOSTnet GmbH	Biebergemünd (Roßbach)	Germany	85.93.31.55	Hesse	
AS28725 Ceska Telekomunikacni Infrastruktura a.s	Varnsdorf	Czechia	85.71.241.38	Ustecky kraj	407 47
AS3303 Swisscom (Switzerland) Ltd	Sachseln	Switzerland	85.7.51.62	Obwalden	6072
AS12479 Orange Espagne SA	Barcelona	Spain	85.58.163.90	Catalonia	08006
AS12479 Orange Espagne SA	Barcelona	Spain	85.55.124.140	Catalonia	08006
AS12479 Orange Espagne SA	Cordova	Spain	85.55.1.10	Andalusia	14005
AS12479 Orange Espagne SA	Paris	United States	85.53.223.146	Idaho	
AS3303 Swisscom (Switzerland) Ltd	Eschenbach	Switzerland	85.5.199.160	Lucerne	6274
AS3303 Swisscom (Switzerland) Ltd	Biasca	Switzerland	85.5.101.82	Ticino	6710
AS3303 Swisscom (Switzerland) Ltd	Ofringen	Switzerland	85.4.145.146	Aargau	4665
AS3269 Telecom Italia	Fucecchio	Italy	85.32.235.177	Tuscany	50054
AS6739 Vodafone Ono, S.A.	Zaragoza	Spain	85.251.104.180	Aragon	50005
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Lisbon	Portugal	85.246.95.105	Lisbon	1200-181
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Lisbon	Portugal	85.245.87.234	Lisbon	
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Lisbon	Portugal	85.244.83.139	Lisbon	1200-181
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Aljezur	Portugal	85.241.77.148	Faro	8670-001

AS16097 HL komm Telekommunikations GmbH	Leipzig (Mitte)	Germany	85.239.122.80	Saxony	
AS20910 SIA Baltcom	Riga	Latvia	85.234.175.51	Riga	
AS6739 Vodafone Ono, S.A.	San Adrian	Spain	85.219.97.184	Navarre	31570
AS5588 T-Mobile Czech Republic a.s.	Krakow	Poland	85.219.136.95	Lesser Poland Voivodeship	31-623
	Svishtov	Bulgaria	85.217.214.249	Oblast Veliko Tarnovo	5250
AS6830 Liberty Global Operations B.V.	Bratislava	Slovakia	85.216.182.200	Bratislava	811 01
AS35706 Net at Once Sweden AB	Backa	Sweden	85.195.21.86	Västra Götaland	422 48
AS203644 EG A/S	Aalborg	Denmark	85.191.222.197	North Denmark	9000
AS51862 Profitbricks GmbH	Berlin (Prenzlauer Berg)	Germany	85.184.248.191	Berlin	
AS6805 Telefonica Germany	Berlin	Germany	85.180.90.70	Land Berlin	10437
AS6805 Telefonica Germany	Hamburg	Germany	85.179.181.31	Hamburg	22177
AS21502 SFR SA	Saint-Etienne-de-Valoux	France	85.170.28.170	Auvergne-Rhone-Alpes	42100
AS2119 Telenor Norge AS	Kirkenes	Norway	85.166.72.83	Finnmark	9900
AS2119 Telenor Norge AS	Arendal	Norway	85.166.69.53	Aust-Agder	4838
AS2119 Telenor Norge AS	Moss	Norway	85.166.166.117	Østfold	1501
AS15527 Elisa Oyj	Seinäjoki	Finland	85.157.35.217	Eastern Finland	60150
AS5390 Euronet Communications B.V.	Hilversum	Netherlands	85.150.57.175	North Holland	
AS5390 Euronet Communications B.V.	Amsterdam	Netherlands	85.148.31.211	North Holland	1075
AS5390 Euronet Communications B.V.	Hilversum	Netherlands	85.148.22.125	North Holland	
AS201848 Trader soft LLC	Saratov	Russia	85.143.219.176	Saratovskaya Oblast'	410960
AS201848 Trader soft LLC	St Petersburg	Russia	85.143.175.200	St.-Petersburg	190817
AS56534 Comfortel Ltd.	St Petersburg	Russia	85.143.166.230	St.-Petersburg	190817
AS8623 Nizhny Novgorod State University	Nizhniy Novgorod	Russia	85.143.14.228	Nizhegorodskaya Oblast'	603002
AS6830 Liberty Global Operations B.V.	Graz	Austria	85.127.199.119	Styria	
AS3303 Swisscom (Switzerland) Ltd	Goldach	Switzerland	85.1.2.117	Saint Gallen	9403
AS3303 Swisscom (Switzerland) Ltd	Zurich	Switzerland	85.1.174.106	Zurich	8037
AS3303 Swisscom (Switzerland) Ltd	Zurich	Switzerland	85.1.149.178	Zurich	8037
AS3303 Swisscom (Switzerland) Ltd	Bern	Switzerland	85.0.224.92	Bern	3006
AS1136 KPN B.V.	Eerbeek	Netherlands	84.87.175.146	Provincie Gelderland	6961

AS12479 Orange Espagne SA	Palma	Spain	84.79.42.90	Balearic Islands	07001
AS6830 Liberty Global Operations B.V.	Hinwil	Switzerland	84.74.199.35	Zurich	8340
AS6830 Liberty Global Operations B.V.	Turgi	Switzerland	84.72.195.85	Aargau	5300
AS3209 Vodafone GmbH	Essen	Germany	84.61.9.220	North Rhine-Westphalia	45141
AS3209 Vodafone GmbH	Gelsenkirchen	Germany	84.61.59.238	North Rhine-Westphalia	45888
AS3209 Vodafone GmbH	Hattingen	Germany	84.61.26.207	North Rhine-Westphalia	45529
AS8228 SFR SA	Mieuxcé	France	84.6.203.20	Normandy	
AS3209 Vodafone GmbH	Bruchsal	Germany	84.56.124.186	Baden-Württemberg Region	76646
AS8228 SFR SA	Vermelles	France	84.5.94.182	Hauts-de-France	62980
AS25577 IDE Group Connect Limited	Poole	United Kingdom	84.45.114.217	England	BH15
AS9143 Ziggo	Sleeuwijk	Netherlands	84.28.64.23	North Brabant	4254
AS9143 Ziggo	Reuver	Netherlands	84.28.63.237	Limburg	5953
AS35505 Pronet Solutii IT SRL	Bucharest	Romania	84.247.3.135	Bucuresti	050019
AS33796 Bolignet-Aarhus	Viby	Denmark	84.238.55.227	Zealand	8260
AS36992 Etisalat Misr	Cairo	Egypt	84.233.105.240	Cairo Governorate	
AS6730 Sunrise Communications AG	Zurich	Switzerland	84.227.4.3	Zurich	8048
AS6848 Telenet BVBA	Antwerp	Belgium	84.198.85.143	Flanders	2018
AS6848 Telenet BVBA	Antwerp	Belgium	84.198.141.66	Flanders	2000
AS6848 Telenet BVBA	Hulshout	Belgium	84.197.16.119	Flanders	2235
AS6848 Telenet BVBA	Heist-op-den-Berg	Belgium	84.196.242.134	Flanders	2220
AS6848 Telenet BVBA	Kinrooi	Belgium	84.194.19.195	Flanders	3640
AS6848 Telenet BVBA	Genk	Belgium	84.193.145.165	Flanders	3600
AS6848 Telenet BVBA	Genk	Belgium	84.193.144.65	Flanders	3600
AS6848 Telenet BVBA	Hasselt	Belgium	84.192.203.104	Flanders	3500
AS6848 Telenet BVBA	Houthalen	Belgium	84.192.104.51	Flanders	3530
AS3320 Deutsche Telekom AG	Mindelheim	Germany	84.187.241.173	Bavaria	87719
AS3320 Deutsche Telekom AG	Leutersdorf	Germany	84.181.14.226	Saxony	02794
AS15425 COMA s.r.o.	Krouna	Czechia	84.16.126.33	Pardubický kraj	539 43
AS3320 Deutsche Telekom AG	Heiligenstedten	Germany	84.156.90.79	Schleswig-Holstein	25524
AS3320 Deutsche Telekom AG	Nonnweiler	Germany	84.149.55.86	Saarland	66620
AS3320 Deutsche Telekom AG	Berlin	Germany	84.142.216.87	Land Berlin	13189
AS3320 Deutsche Telekom AG	Detmold	Germany	84.138.64.105	North Rhine-Westphalia	32760

AS3320 Deutsche Telekom AG	Münster	Germany	84.137.28.125	North Rhine-Westphalia	48155
AS3320 Deutsche Telekom AG	Versmold	Germany	84.137.108.218	North Rhine-Westphalia	33775
AS12357 Vodafone Spain	Palma	Spain	84.127.87.206	Balearic Islands	07001
AS6739 Vodafone Ono, S.A.	León	Spain	84.125.24.76	Castille and León	24005
AS6739 Vodafone Ono, S.A.	Albacete	Spain	84.121.127.211	Castille-La Mancha	02005
AS6830 Liberty Global Operations B.V.	Vienna	Austria	84.114.88.149	Vienna	1020
AS29259 IABG mbH	Ottobrunn	Germany	84.11.181.103	Bavaria	
AS9143 Ziggo	Hoorn	Netherlands	84.107.86.129	North Holland	1624
AS25525 Reasonnet IP Networks B.V.	Amsterdam (Westpoort)	Netherlands	83.98.203.14	North Holland	
AS3292 Tele Danmark	Odense	Denmark	83.92.181.151	South Denmark	5210
AS9143 Ziggo	Breda	Netherlands	83.82.175.159	North Brabant	4814
AS9143 Ziggo	Amersfoort	Netherlands	83.80.255.116	Provincie Utrecht	3813
AS3303 Swisscom (Switzerland) Ltd	Biel/Bienne	Switzerland	83.79.75.54	Bern	2502
AS3352 Telefonica De Espana	Sabadell	Spain	83.63.195.168	Catalonia	08205
AS3352 Telefonica De Espana	Cordova	Spain	83.59.129.62	Andalusia	14001
AS3352 Telefonica De Espana	Martos	Spain	83.56.93.50	Andalusia	23600
AS3352 Telefonica De Espana	Barcelona	Spain	83.54.226.188	Catalonia	08006
AS3352 Telefonica De Espana	Villanueva de la Canada	Spain	83.53.107.96	Madrid	28691
AS3352 Telefonica De Espana	Vilanova i la Geltrú	Spain	83.52.134.200	Catalonia	08800
AS3352 Telefonica De Espana	Seville	Spain	83.49.236.112	Andalusia	41003
AS3352 Telefonica De Espana	Madrid	Spain	83.48.82.211	Madrid	
AS3352 Telefonica De Espana	Las Palmas de Gran Canaria	Spain	83.47.10.68	Canary Islands	35011
AS3352 Telefonica De Espana	Madrid	Spain	83.46.253.74	Madrid	28031
AS3352 Telefonica De Espana	A Coruña	Spain	83.46.152.197	Galicia	15177
AS3352 Telefonica De Espana	Premia de Mar	Spain	83.42.242.243	Catalonia	08330
AS3352 Telefonica De Espana	Sabadell	Spain	83.42.210.186	Catalonia	08202
AS3352 Telefonica De Espana	León	Spain	83.41.103.189	Castille and León	24004

AS3352 Telefonica De Espana	Seville	Spain	83.39.30.140	Andalusia	41005
AS3352 Telefonica De Espana	Sant Vicenç dels Horts	Spain	83.38.151.171	Catalonia	08620
AS3352 Telefonica De Espana	Barcelona	Spain	83.38.132.235	Catalonia	08001
AS3352 Telefonica De Espana	Granada	Spain	83.32.96.227	Andalusia	18001
AS3352 Telefonica De Espana	Brena Alta	Spain	83.32.188.1	Canary Islands	38710
AS5617 Orange Polska Spolka Akcyjna	Warsaw	Poland	83.3.33.234	Mazovia	00-202
AS5617 Orange Polska Spolka Akcyjna	Ciechanów	Poland	83.3.165.49	Mazovia	06-400
AS39651 Com Hem AB	Gothenburg	Sweden	83.254.97.52	Västra Götaland	400 12
AS39651 Com Hem AB	Gothenburg	Sweden	83.249.254.139	Västra Götaland	400 12
AS24867 Adapt Services Limited	Mayfair	United Kingdom	83.217.97.76	England	W1
AS5408 Greek Research and Technology Network S.A	Athens	Greece	83.212.103.113	Attica	
AS6830 Liberty Global Operations B.V.	Warsaw (Wola)	Poland	83.175.176.18	Mazovia	
AS6739 Vodafone Ono, S.A.	Tudela	Spain	83.173.158.4	Navarre	31500
AS6739 Vodafone Ono, S.A.	Logroño	Spain	83.173.130.100	La Rioja	26002
AS12530 Kyivstar PJSC	Kiev	Ukraine	83.170.243.142	Kyiv City	02094
AS29222 Infomaniak Network SA	Carouge	Switzerland	83.166.148.26	Geneva	
AS12322 Free SAS	Vernon	France	83.155.207.65	Normandy	27200
AS8866 Vivacom	Velingrad	Bulgaria	83.148.122.135	Pazardzhik	4600
AS31222 Terra S.p.a.	Arezzo	Italy	83.147.76.57	Tuscany	52100
AS29422 Nebula Oy	Helsinki	Finland	83.145.218.210	Uusimaa	00180
AS21430 WIA spol. s.r.o.	Prague	Czechia	83.136.202.229	Hlavní město Praha	130 00
AS8881 1&1 Versatel Deutschland GmbH	Cologne	Germany	83.135.136.210	North Rhine-Westphalia	50969
AS8402 VimpelCom	Moscow	Russia	83.102.214.221	Moscow	125124
AS12390 Kcom	Beverley	United Kingdom	83.100.231.105	England	HU17
AS42612 DinaHosting S.L.	Santiago de Compostela	Spain	82.98.136.221	Galicia	
AS3209 Vodafone GmbH	Osterode	Germany	82.82.76.46	Thuringia	99762
AS3209 Vodafone GmbH	Frankfurt am Main	Germany	82.82.1.223	Hesse	
AS12322 Free SAS	Montrouge	France	82.67.156.60	Île-de-France	92120
AS12322 Free SAS	Aix-en-Provence	France	82.66.159.231	Provence-Alpes-Côte d'Azur	13090
AS3269 Telecom Italia	Palermo	Italy	82.63.113.230	Sicily	90138

AS3269 Telecom Italia	Budrione	Italy	82.61.142.99	Emilia-Romagna	41012
AS3269 Telecom Italia	Gattinara	Italy	82.57.199.158	Piedmont	13045
AS3269 Telecom Italia	Manerbio	Italy	82.54.22.8	Lombardy	25025
AS3269 Telecom Italia	Recale	Italy	82.53.88.207	Campania	81020
AS3269 Telecom Italia	Mogliano Veneto	Italy	82.52.178.16	Veneto	31021
AS3269 Telecom Italia	Osimo	Italy	82.49.13.40	The Marches	60027
AS5089 Virgin Media Limited	Camden	United Kingdom	82.44.159.240	England	NW1
AS5089 Virgin Media Limited	Wallsend	United Kingdom	82.42.90.49	England	NE28
AS5089 Virgin Media Limited	Wallsend	United Kingdom	82.42.70.102	England	NE28
AS5089 Virgin Media Limited	Bristol	United Kingdom	82.42.60.165	England	BS15
AS5089 Virgin Media Limited	Feltham	United Kingdom	82.41.78.200	England	TW13
AS5089 Virgin Media Limited	Dumbarton	United Kingdom	82.39.193.177	Scotland	G82
AS5089 Virgin Media Limited	Wood Green	United Kingdom	82.37.14.189	England	N22
AS5089 Virgin Media Limited	Croydon	United Kingdom	82.33.148.244	England	CR0
AS5089 Virgin Media Limited	Ipswich	United Kingdom	82.30.16.58	England	IP4
AS5089 Virgin Media Limited	Letchworth	United Kingdom	82.3.5.166	England	SG6
AS5089 Virgin Media Limited	Stoke-on-Trent	United Kingdom	82.29.162.63	England	ST4
AS12322 Free SAS	Paris	France	82.255.16.181	Île-de-France	75015
AS12322 Free SAS	Paris (8th arrondissement of Paris)	France	82.250.57.79	Île-de-France	
AS12322 Free SAS	Paris	France	82.243.57.36	Île-de-France	75013
AS12322 Free SAS	Gennevilliers	France	82.243.130.195	Île-de-France	92230
AS12322 Free SAS	Cannes	France	82.240.32.127	Provence-Alpes-Côte d'Azur	06400
AS12322 Free SAS	Sarcelles	France	82.237.18.236	Île-de-France	95200
AS12322 Free SAS	Bron	France	82.237.104.63	Auvergne-Rhone-Alpes	69500
AS12322 Free SAS	Beauvais	France	82.233.56.23	Hauts-de-France	60000
AS5089 Virgin Media Limited	Emsworth	United Kingdom	82.22.209.174	England	PO10
AS29562 Kabel BW	Eisingen	Germany	82.212.23.238	Baden-Württemberg Region	75239
AS5089 Virgin Media Limited	Bolton	United Kingdom	82.21.159.153	England	BL1
AS6697 Republican Unitary Telecommunication Enterprise Beltelecom	Minsk	Belarus	82.209.222.45	Minsk City	220000

AS5089 Virgin Media Limited	Warrington	United Kingdom	82.2.9.90	England	WA5
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Lisbon	Portugal	82.155.50.26	Lisbon	1200-181
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Coimbra	Portugal	82.155.39.231	Coimbra	3000-000
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Vila Nova de Gaia	Portugal	82.155.183.33	Porto	4400-000
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Lisbon	Portugal	82.154.210.90	Lisbon	1200-181
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Sao Bras de Alportel	Portugal	82.154.199.228	Faro	8150-014
AS8542 BKK Digitek AS	Bergen	Norway	82.134.31.193	Hordaland Fylke	5003
AS48945 Independent Fibre Networks Limited	London	United Kingdom	82.129.118.186	England	EC2V
AS8607 Timico Limited	Bromley	United Kingdom	82.118.99.3	England	BR1
AS45007 Vipnet EOOD	Pernik	Bulgaria	82.118.251.122	Pernik	2300
AS44552 Saratov Digital Phone Network Ltd	Saratov	Russia	82.114.241.201	Saratovskaya Oblast'	410960
AS5089 Virgin Media Limited	Harlow	United Kingdom	82.11.249.87	England	CM17
AS15805 MTN Cyprus Limited	Paphos	Cyprus	82.102.35.218	Pafos	
AS5089 Virgin Media Limited	Liverpool	United Kingdom	81.99.186.110	England	L3
AS6739 Vodafone Ono, S.A.	Madrid	Spain	81.61.196.218	Madrid	28029
AS12322 Free SAS	Saint-Denis	France	81.57.195.88	Île-de-France	93200
AS12322 Free SAS	Paris	France	81.56.69.158	Île-de-France	75017
AS3352 Telefonica De Espana	Madrid	Spain	81.45.95.234	Madrid	28001
AS3352 Telefonica De Espana	Alcalá de Henares	Spain	81.44.89.25	Madrid	28806
AS3352 Telefonica De Espana	Cordova	Spain	81.43.63.226	Andalusia	14014
AS3352 Telefonica De Espana	Barcelona	Spain	81.40.109.169	Catalonia	08033
AS3352 Telefonica De Espana	San Fernando	Spain	81.34.30.187	Andalusia	11100
AS3215 Orange	Fort-de-France	Martinique	81.248.14.122		
AS3 Massachusetts Institute of Technology	Charleroi	Belgium	81.244.131.49	Wallonia	

AS3 Massachusetts Institute of Technology	Brussels	Belgium	81.242.97.238	Brussels Capital	
AS3 Massachusetts Institute of Technology	Ghent	Belgium	81.242.227.137	Flanders	
AS3 Massachusetts Institute of Technology	Antwerp	Belgium	81.241.37.31	Flanders	2170
AS3 Massachusetts Institute of Technology	Brussels	Belgium	81.240.98.234	Brussels Capital	1070
AS3 Massachusetts Institute of Technology	Brussels	Belgium	81.240.190.85	Brussels Capital	1000
AS3301 Telia Company AB	Eskilstuna	Sweden	81.230.23.3	Södermanland	630 03
AS3216 PVimpelCom	Moscow	Russia	81.211.39.193	Moscow	125413
AS12357 Vodafone Spain	Alzira	Spain	81.203.204.170	Valencia	46600
AS20712 Andrews & Arnold Ltd	Arnold	United Kingdom	81.2.85.243	England	NG5
AS48945 Independent Fibre Networks Limited	Corby	United Kingdom	81.2.152.96	England	NN18
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Lagos	Portugal	81.193.15.218	Faro	8600-000
AS21470 South West Communications Group Ltd	Yeovil	United Kingdom	81.17.72.118	England	BA20
AS2856 British Telecommunications PLC	Stock	United Kingdom	81.157.249.144	England	CM4
AS2856 British Telecommunications PLC	Worcester	United Kingdom	81.157.230.134	England	WR4
AS2856 British Telecommunications PLC	Tamworth	United Kingdom	81.150.175.102	England	B77
AS2856 British Telecommunications PLC	Worcester	United Kingdom	81.141.85.121	England	WR5
AS2856 British Telecommunications PLC	Enfield Town	United Kingdom	81.139.59.180	England	EN1
AS2856 British Telecommunications PLC	Borehamwood	United Kingdom	81.132.34.218	England	WD6
AS5089 Virgin Media Limited	Belfast	United Kingdom	81.108.193.18	Northern Ireland	BT12
AS5089 Virgin Media Limited	Epsom	United Kingdom	81.107.247.93	England	KT17
AS5089 Virgin Media Limited	Leeds	United Kingdom	81.105.121.166	England	LS12
AS1547 JSCC Interdnestrom	Tiraspol	Republic of Moldova	80.94.251.124	Unitatea Teritoriala din Stinga Nistrului	md-3300
AS30868 ZAO AKADO-Ekaterinburg	Yekaterinburg	Russia	80.83.240.250	Sverdlovskaya Oblast'	620019
AS16285 Closed Joint Stock Company TransTeleCom	Yekaterinburg	Russia	80.78.112.198	Sverdlovskaya Oblast'	620019
AS34456 Rial Com JSC	Chekhov	Russia	80.71.246.59	Moscow Oblast	142300

AS5089 Virgin Media Limited	Chelsea	United Kingdom	80.4.139.77	England	SW10
AS3352 Telefonica De Espana	Alicante	Spain	80.30.236.79	Valencia	03002
AS5089 Virgin Media Limited	Reading	United Kingdom	80.3.45.230	England	RG30
AS35429 Groupe ITN France	Suresnes	France	80.251.99.111	Île-de-France	
AS20836 CDLAN s.r.l.	Travagliato	Italy	80.249.38.103	Lombardy	25039
AS20773 Host Europe GmbH	Hoest	Germany	80.237.249.252	North Rhine-Westphalia	47652
AS21502 SFR SA	Lille	France	80.236.72.244	Hauts-de-France	59000
AS3249 Telia Eesti AS	Pärnu	Estonia	80.235.57.81	Pärnumaa	
AS6830 Liberty Global Operations B.V.	Gunzwil	Switzerland	80.218.29.83	Lucerne	6222
AS31034 Aruba S.p.A.	Arezzo	Italy	80.211.146.45	Tuscany	52100
AS12880 Information Technology Company (ITC)	Copenhagen (København V)	Denmark	80.210.3.122	Capital Region	
AS3269 Telecom Italia	Godega di Sant'Urbano	Italy	80.21.25.235	Veneto	31010
AS5089 Virgin Media Limited	Gloucester	United Kingdom	80.192.102.205	England	GL4
AS41272 Moselle Telecom	Goetzenbruck	France	80.185.227.83	Grand-Est	57620
AS6412 KW KEMS Block-A, Floor 7, Souq Al-Kabeer Kuwait City, State of Kuwait P O Box 3623, Safat 130	Kuwait City (Jibla)	Kuwait	80.184.39.112	Al Asimah	
AS6412 KW KEMS Block-A, Floor 7, Souq Al-Kabeer Kuwait City, State of Kuwait P O Box 3623, Safat 130	Kuwait City (Jibla)	Kuwait	80.184.176.173	Al Asimah	
AS3269 Telecom Italia	Naples	Italy	80.182.64.219	Campania	80124
AS3269 Telecom Italia	Turin	Italy	80.180.107.207	Piedmont	10123
AS2529 Now maintained by Cable & Wireless Worldwide	London	United Kingdom	80.176.6.90	England	
AS3269 Telecom Italia	Remanzacco	Italy	80.16.201.149	Friuli Venezia Giulia	33047
AS3320 Deutsche Telekom AG	Nuremberg (Mitte)	Germany	80.157.180.161	Bavaria	
AS3320 Deutsche Telekom AG	Munich	Germany	80.147.8.24	Bavaria	
AS3320 Deutsche Telekom AG	Celle	Germany	80.139.225.60	Lower Saxony	29221
AS3320 Deutsche Telekom AG	Bruggen	Germany	80.138.14.118	North Rhine-Westphalia	41379
AS3320 Deutsche Telekom AG	Cologne	Germany	80.135.5.15	North Rhine-Westphalia	50858

AS3320 Deutsche Telekom AG	Magdeburg	Germany	80.129.193.189	Saxony-Anhalt	39108
AS8447 A1 Telekom Austria AG	Vorau	Austria	80.123.189.223	Styria	8250
AS8447 A1 Telekom Austria AG	Liebenfels	Austria	80.122.215.188	Carinthia	9556
AS15557 SFR SA	Béziers	France	80.119.112.117	Occitanie	34500
AS6830 Liberty Global Operations B.V.	Vienna	Austria	80.109.8.16	Vienna	1160
AS6830 Liberty Global Operations B.V.	Vienna	Austria	80.108.87.8	Vienna	1100
AS6830 Liberty Global Operations B.V.	Vienna	Austria	80.108.136.19	Vienna	1220
AS12479 Orange Espagne SA	Valencia	Spain	80.102.144.244	Valencia	46002
AS62728 Velocity The Greatest Phone Company Ever, Inc.	New York	United States	8.9.42.201	New York	
AS11213 Level 3 Communications, Inc.	Denver	United States	8.36.228.252	Colorado	80202
AS63031 Webby Enterprises LLC	Newark	United States	8.10.141.122	New Jersey	
AS47201 Telecommunication Regulatory Authority	Dubai	United Arab Emirates	79.98.120.230	Dubai	
AS3269 Telecom Italia	Reggio Calabria	Italy	79.9.150.169	Calabria	89100
AS15557 SFR SA	Millas	France	79.86.228.66	Occitanie	66170
AS15557 SFR SA	Brignoles	France	79.80.194.89	Provence-Alpes-Côte d'Azur	83170
AS3269 Telecom Italia	Castelfranco Veneto	Italy	79.7.95.39	Veneto	31033
AS3269 Telecom Italia	Taurianova	Italy	79.7.216.81	Calabria	89029
AS3269 Telecom Italia	Ravenna	Italy	79.62.17.138	Emilia-Romagna	48100
AS3269 Telecom Italia	Nonantola	Italy	79.61.97.82	Emilia-Romagna	41015
AS3269 Telecom Italia	Modena	Italy	79.61.180.137	Emilia-Romagna	41100
AS3269 Telecom Italia	Bologna	Italy	79.55.51.96	Emilia-Romagna	40134
AS3269 Telecom Italia	Bologna	Italy	79.55.23.173	Emilia-Romagna	40125
AS3269 Telecom Italia	Naples	Italy	79.55.142.69	Campania	80040
AS3269 Telecom Italia	Rome	Italy	79.53.225.146	Latium	00148
AS3269 Telecom Italia	Perugia	Italy	79.47.190.179	Umbria	06123
AS3269 Telecom Italia	Catania	Italy	79.46.97.42	Sicily	95126
AS3269 Telecom Italia	Bari	Italy	79.43.4.140	Apulia	70122
AS3269 Telecom Italia	Venice	Italy	79.41.244.191	Veneto	30125
AS3269 Telecom Italia	Brescia	Italy	79.40.68.77	Lombardy	25100
AS3269 Telecom Italia	Rome	Italy	79.37.235.73	Latium	00134
AS3269 Telecom Italia	Rome	Italy	79.33.211.251	Latium	00134

AS3269 Telecom Italia	Palermo	Italy	79.3.11.229	Sicily	90100
AS3269 Telecom Italia	Lamezia Terme	Italy	79.26.33.239	Calabria	88046
AS3320 Deutsche Telekom AG	Drolshagen	Germany	79.245.181.203	North Rhine-Westphalia	57489
AS3269 Telecom Italia	Vigliano Biellese	Italy	79.24.35.106	Piedmont	13856
AS3269 Telecom Italia	Rome	Italy	79.23.93.188	Latium	00134
AS3269 Telecom Italia	Bologna	Italy	79.23.48.217	Emilia-Romagna	40131
AS3320 Deutsche Telekom AG	Leukersdorf	Germany	79.226.159.168	Saxony	09387
AS3320 Deutsche Telekom AG	Ahnatal	Germany	79.218.13.240	Hesse	34292
AS3320 Deutsche Telekom AG	Schmalkalden	Germany	79.214.138.91	Thuringia	98574
AS3320 Deutsche Telekom AG	Hardegsen	Germany	79.210.198.154	Lower Saxony	37181
AS3320 Deutsche Telekom AG	Buende	Germany	79.209.153.196	North Rhine-Westphalia	32257
AS3320 Deutsche Telekom AG	Dillingen	Germany	79.208.222.92	Saarland	66763
AS3320 Deutsche Telekom AG	Frankfurt am Main	Germany	79.198.203.28	Hesse	
AS3320 Deutsche Telekom AG	Minden	Germany	79.197.134.254	North Rhine-Westphalia	32425
AS3320 Deutsche Telekom AG	Berlin	Germany	79.194.56.99	Land Berlin	12559
AS5617 Orange Polska Spolka Akcyjna	Gdynia	Poland	79.187.253.26	Pomerania	81-411
AS3269 Telecom Italia	Florence	Italy	79.18.135.123	Tuscany	50125
AS12390 Kcom	Hessle	United Kingdom	79.170.192.69	England	
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Athens (Ampelokipoi)	Greece	79.167.91.130	Attica	
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Thessaloniki	Greece	79.167.26.4	Central Macedonia	
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Athens	Greece	79.167.207.1	Attica	
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Athens	Greece	79.166.17.18	Attica	
AS3352 Telefonica De Espana	Barcelona	Spain	79.158.14.64	Catalonia	08004

AS3352 Telefonica De Espana	Huelva	Spain	79.154.100.223	Andalusia	21007
AS3352 Telefonica De Espana	Madrid	Spain	79.153.77.169	Madrid	28030
AS3352 Telefonica De Espana	Betera	Spain	79.152.8.11	Valencia	46117
AS3352 Telefonica De Espana	A Coruña	Spain	79.151.54.140	Galicia	15177
AS3352 Telefonica De Espana	Cadiz	Spain	79.150.70.136	Andalusia	11011
AS3352 Telefonica De Espana	Valladolid	Spain	79.148.109.72	Castille and León	47005
AS42831 UK Dedicated Servers Limited	Camberley	United Kingdom	79.143.58.48	England	GU15
AS44581 AllTele Allmanna Svenska Telefonaktiebolaget	Sundsvall	Sweden	79.138.10.55	Västernorrland	850 02
AS3269 Telecom Italia	Catania	Italy	79.13.53.139	Sicily	95125
AS3269 Telecom Italia	Palermo	Italy	79.13.174.250	Sicily	90142
AS16333 Company for communications services ONE.VIP DOO Skopje	Skopje	Macedonia	79.126.169.63	Opstina Karpos	
AS5483 Magyar Telekom plc.	Nagyatad	Hungary	79.122.17.67	Somogy megye	7500
AS3269 Telecom Italia	Tricase	Italy	79.12.250.31	Apulia	73039
AS3269 Telecom Italia	Perugia	Italy	79.12.186.171	Umbria	06131
AS8708 RCS & RDS	Carei	Romania	79.114.222.61	Satu Mare	445100
AS8708 RCS & RDS	Turnu Ruieni	Romania	79.114.147.81	Judetul Caras-Severin	327405
AS25472 Wind Hellas Telecommunications SA	Thessaloniki	Greece	79.107.194.214	Central Macedonia	
AS3269 Telecom Italia	Gioiosa Ionica	Italy	79.0.9.169	Calabria	89042
AS3269 Telecom Italia	Racalmuto	Italy	79.0.25.18	Sicily	92020
AS25233 Arabian Internet & Communications Services Co.ltd	Khobar	Saudi Arabia	78.93.223.81	Eastern Province	
AS12389 PJSC Rostelecom	Izhevsk	Russia	78.85.227.109	Udmurtskaya Respublika	426004
AS12578 SIA Lattelecom	Ogre	Latvia	78.84.244.58	Ogre	
AS12389 PJSC Rostelecom	Kaliningrad	Russia	78.81.173.230	Kaliningradskaya Oblast'	236000
AS6805 Telefonica Germany	Berlin	Germany	78.52.112.15	Land Berlin	10997
AS6805 Telefonica Germany	Berlin	Germany	78.52.10.164	Land Berlin	10999
AS6805 Telefonica Germany	Hamburg	Germany	78.51.83.21	Hamburg	20095
AS6805 Telefonica Germany	Hamburg	Germany	78.51.237.217	Hamburg	20095
AS6805 Telefonica Germany	Kleve	Germany	78.48.211.204	North Rhine-Westphalia	47533

AS6805 Telefonica Germany	Berlin	Germany	78.48.185.60	Land Berlin	10967
AS6830 Liberty Global Operations B.V.	Prague	Czechia	78.45.22.133	Hlavni mesto Praha	130 00
AS29562 Kabel BW	Laupheim	Germany	78.43.85.168	Baden-Württemberg Region	88471
AS29562 Kabel BW	Mannheim	Germany	78.42.33.254	Baden-Württemberg Region	68259
AS34879 OOO Sovremennye setevye tekhnologii	Levoberezhny District	Russia	78.41.110.41	Moscow	
AS12389 PJSC Rostelecom	Syktvykar	Russia	78.36.108.48	Komi	167000
AS8422 NetCologne GmbH	Cologne	Germany	78.35.199.243	North Rhine-Westphalia	51065
AS34187 LLC Renome-Service	Odesa	Ukraine	78.26.153.227	Odessa	65033
AS12322 Free SAS	Annecy	France	78.243.121.147	Auvergne-Rhone-Alpes	74000
AS12322 Free SAS	Crépy-en-Valois	France	78.242.11.66	Hauts-de-France	60800
AS12322 Free SAS	Dijon	France	78.240.68.102	Bourgogne-Franche-Comte	21000
AS12322 Free SAS	Verrieres-le-Buisson	France	78.238.223.175	Île-de-France	91370
AS12322 Free SAS	Chateau-Gontier	France	78.231.8.7	Pays de la Loire	53200
AS12322 Free SAS	Gueret	France	78.231.1.234	Nouvelle-Aquitaine	23000
AS12322 Free SAS	Wormhout	France	78.230.166.240	Hauts-de-France	59470
AS6848 Telenet BVBA	Ghent	Belgium	78.23.53.76	Flanders	9000
AS12322 Free SAS	Concarneau	France	78.228.189.74	Brittany	29900
AS12322 Free SAS	La Ciotat	France	78.227.110.58	Provence-Alpes-Côte d'Azur	13600
AS12322 Free SAS	Castelnau-d'Estrétefonds	France	78.225.237.18	Occitanie	31620
AS12322 Free SAS	Fleury-sur-Andelle	France	78.222.73.3	Normandy	27380
AS12322 Free SAS	Avelin	France	78.219.94.228	Hauts-de-France	59710
AS12322 Free SAS	Bessieres	France	78.212.15.181	Occitanie	31660
AS12322 Free SAS	Charquemont	France	78.211.143.18	Bourgogne-Franche-Comte	25140
AS6848 Telenet BVBA	Ghent	Belgium	78.21.16.144	Flanders	9000
AS12322 Free SAS	Touvois	France	78.205.30.19	Pays de la Loire	44650
AS12322 Free SAS	Ussel	France	78.202.112.20	Nouvelle-Aquitaine	19200
AS12322 Free SAS	Saint-Domineuc	France	78.195.144.154	Brittany	35190
AS12322 Free SAS	Paris	France	78.194.220.129	Île-de-France	75010
AS12322 Free SAS	Toulouse	France	78.194.210.183	Occitanie	31400
AS9121 Turk Telekom	Afyonkarahisar	Turkey	78.189.88.1	Afyonkarahisar	03030
AS9121 Turk Telekom	Istanbul	Turkey	78.185.138.238	Istanbul	
AS9121 Turk Telekom	Mersin	Turkey	78.183.250.246	Mersin	
AS9121 Turk Telekom	Istanbul	Turkey	78.173.64.36	Istanbul	
AS9121 Turk Telekom	Osmaniye	Turkey	78.168.173.198	Osmaniye	
AS43698 Ariege Telecom	Varilhes	France	78.159.27.43	Occitanie	09120

AS28716 Reti Telematiche Italiane S.p.A. (Retelit S.p.A.)	Piancastagnaio	Italy	78.159.193.206	Tuscany	53025
AS43507 RETE internet, s.r.o.	Roudnice nad Labem	Czechia	78.156.40.136	Ustecky kraj	413 01
AS8612 Tiscali SpA	Quartu Sant'Elena	Italy	78.14.99.116	Sardinia	09045
AS39812 Closed Joint Stock Company Radiotelephone	Kamensk-Ural'skiy	Russia	78.139.89.201	Sverdlovskaya Oblast'	623400
AS39812 Closed Joint Stock Company Radiotelephone	Kamensk-Ural'skiy	Russia	78.139.104.204	Sverdlovskaya Oblast'	623408
AS8412 T-Mobile Austria GmbH	Vienna (Landstraße)	Austria	78.132.113.41	Vienna	
AS8612 Tiscali SpA	Rome	Italy	78.13.213.244	Latium	00137
AS8228 SFR SA	Nancy	France	78.127.232.232	Grand-Est	54000
AS8228 SFR SA	Suze-la-Rousse	France	78.125.166.31	Auvergne-Rhone-Alpes	26790
AS8228 SFR SA	Freterive	France	78.116.186.248	Auvergne-Rhone-Alpes	73250
AS8228 SFR SA	Montagnac-Montpezat	France	78.112.99.199	Provence-Alpes-Côte d'Azur	04500
AS42861 Foton Telecom CJSC	Moscow	Russia	77.91.71.77	Moscow	102128
AS35632 Iris 64	Pau	France	77.84.97.56	Nouvelle-Aquitaine	64000
AS12389 PJSC Rostelecom	Khabarovsk	Russia	77.82.42.183	Khabarovsk	680000
AS42926 Radore Veri Merkezi Hizmetleri A.S.	Istanbul	Turkey	77.75.36.164	Istanbul	
AS29017 Gyron Internet Ltd	Hemel Hempstead	United Kingdom	77.72.205.201	England	
AS5416 Batelco	Manama	Bahrain	77.69.247.249	Manama	
AS5416 Batelco	Manama	Bahrain	77.69.236.174	Manama	
AS15967 Nazwa.pl Sp.z.o.o.	Krakow (Grzegórzki)	Poland	77.55.213.93	Lesser Poland Voivodeship	
AS42003 Libantelecom	Beirut	Lebanon	77.42.247.43	Beyrouth	
AS2116 Broadnet AS	Oslo	Norway	77.40.241.245	Oslo County	0001
AS6830 Liberty Global Operations B.V.	Rotterdam	Netherlands	77.248.138.51	South Holland	3051
AS34010 Yahoo! UK Services Limited	Dublin	Ireland	77.238.176.11	Leinster	D02
AS21353 JSC ER-Telecom Holding	Moscow	Russia	77.236.235.73	Moscow	102128
AS21219 Private Joint Stock Company datagroup	Kiev	Ukraine	77.222.128.227	Kyiv City	
AS1257 TELE2	Zagreb	Croatia	77.216.138.96	Grad Zagreb	
AS15557 SFR SA	Pessac	France	77.204.28.57	Nouvelle-Aquitaine	33600
AS15557 SFR SA	Niaflès	France	77.204.174.85	Pays de la Loire	53400
AS15557 SFR SA	Echillais	France	77.203.73.109	Nouvelle-Aquitaine	17620
AS15557 SFR SA	Luzarches	France	77.202.167.203	Île-de-France	95270
AS31334 Vodafone Kabel Deutschland GmbH	Bad Eilsen	Germany	77.20.34.47	Lower Saxony	31707

AS15557 SFR SA	Langres	France	77.197.208.168	Grand-Est	52200
AS15557 SFR SA	Saint-Priest-en-Jarez	France	77.192.7.93	Auvergne-Rhone-Alpes	42270
AS6805 Telefonica Germany	Munich	Germany	77.190.222.95	Bavaria	80469
AS6805 Telefonica Germany	Munich	Germany	77.189.21.151	Bavaria	80798
AS6805 Telefonica Germany	Pfaffenhofen an der Roth	Germany	77.189.209.36	Bavaria	89284
AS6805 Telefonica Germany	Hamburg	Germany	77.188.62.215	Hamburg	22607
AS6805 Telefonica Germany	Berlin	Germany	77.180.193.22	Land Berlin	12529
AS6805 Telefonica Germany	Berlin	Germany	77.180.139.60	Land Berlin	10997
AS6805 Telefonica Germany	Berlin	Germany	77.179.211.180	Land Berlin	12529
AS6805 Telefonica Germany	Rüsselsheim am Main	Germany	77.178.82.135	Hesse	65428
AS6805 Telefonica Germany	Mommenheim	Germany	77.177.169.247	Rheinland-Pfalz	55278
AS6805 Telefonica Germany	Kieselbronn	Germany	77.176.90.176	Baden-Württemberg Region	75249
AS12871 KPN B.V.	Lochem	Netherlands	77.174.44.201	Provincie Gelderland	7241
AS15557 SFR SA	Saint-Sauveur-d'Emalleville	France	77.151.78.74	Normandy	76110
AS15557 SFR SA	Habsheim	France	77.140.25.129	Grand-Est	68440
AS15557 SFR SA	Crèvecœur-en-Auge	France	77.128.114.231	Normandy	14340
AS6805 Telefonica Germany	Berlin	Germany	77.12.29.170	Land Berlin	13355
AS34606 B.B.Bell SPA	Castellazzo Bormida	Italy	77.108.31.22	Piedmont	15073
AS12389 PJSC Rostelecom	Vologda	Russia	77.106.44.249	Vologodskaya Oblast'	160017
AS5089 Virgin Media Limited	Tottenham	United Kingdom	77.101.229.16	England	N17
AS7922 Comcast Cable Communications, LLC	Drexel Hill	United States	76.99.252.222	Pennsylvania	19026
AS7922 Comcast Cable Communications, LLC	Cumming	United States	76.97.198.118	Georgia	30040
AS20001 Time Warner Cable Internet LLC	San Diego	United States	76.81.185.4	California	92123
AS39939 JAB Wireless, INC.	Cheyenne	United States	76.76.76.154	Wyoming	82001
AS13768 Cogeco Peer 1	Toronto	Canada	76.74.153.36	Ontario	M8W
AS209 Qwest Communications Company, LLC	Lady Lake	United States	76.5.60.124	Florida	32162
AS18494 Embarq Corporation	Warrensburg	United States	76.3.36.86	Missouri	64093

AS7922 Comcast Cable Communications, LLC	Huntington	United States	76.26.74.73	West Virginia	25701
AS7922 Comcast Cable Communications, LLC	Attleboro	United States	76.24.6.235	Massachusetts	02703
AS7922 Comcast Cable Communications, LLC	Salt Lake City	United States	76.23.6.64	Utah	84115
AS7922 Comcast Cable Communications, LLC	Everett	United States	76.22.76.31	Washington	98208
AS7922 Comcast Cable Communications, LLC	Santa Clara	United States	76.21.95.35	California	95051
AS7922 Comcast Cable Communications, LLC	Marietta	United States	76.20.237.225	Georgia	30064
AS209 Qwest Communications Company, LLC	Raeford	United States	76.2.42.106	North Carolina	28376
AS23033 Wowrack.com	Kirkland	United States	76.191.81.251	Washington	98033
AS10796 Time Warner Cable Internet LLC	Warren	United States	76.188.153.136	Ohio	44483
AS11427 Time Warner Cable Internet LLC	Irving	United States	76.186.182.68	Texas	75061
AS20001 Time Warner Cable Internet LLC	Los Angeles	United States	76.175.15.34	California	90065
AS20001 Time Warner Cable Internet LLC	Los Angeles	United States	76.174.84.15	California	90032
AS20001 Time Warner Cable Internet LLC	Los Angeles	United States	76.172.175.190	California	90038
AS7922 Comcast Cable Communications, LLC	Brentwood	United States	76.122.249.112	Tennessee	37027
AS7922 Comcast Cable Communications, LLC	Moundsville	United States	76.120.137.242	West Virginia	26041
AS7922 Comcast Cable Communications, LLC	Quincy	United States	76.119.107.38	Massachusetts	02169
AS7922 Comcast Cable Communications, LLC	Windsor	United States	76.118.80.118	Connecticut	06095
AS7922 Comcast Cable Communications, LLC	Longmeadow	United States	76.118.245.41	Massachusetts	01106
AS7922 Comcast Cable Communications, LLC	Deerfield Beach	United States	76.111.229.137	Florida	33442
AS7922 Comcast Cable Communications, LLC	Boca Raton	United States	76.110.98.75	Florida	33496
AS7922 Comcast Cable Communications, LLC	Lake Worth	United States	76.110.121.176	Florida	33463
AS11260 EastLink	Amherst	Canada	76.11.110.162	Nova Scotia	B4H
AS7922 Comcast Cable Communications, LLC	Delray Beach	United States	76.109.157.152	Florida	33444
AS7922 Comcast Cable Communications, LLC	Shreveport	United States	76.107.34.134	Louisiana	71115
AS7922 Comcast Cable Communications, LLC	Olive Branch	United States	76.107.168.51	Mississippi	38654

AS7922 Comcast Cable Communications, LLC	Martinsburg	United States	76.106.21.225	West Virginia	25403
AS7922 Comcast Cable Communications, LLC	Lehigh Acres	United States	76.101.240.26	Florida	33936
AS7922 Comcast Cable Communications, LLC	Elkton	United States	76.100.135.222	Maryland	21921
AS7029 Windstream Communications LLC	Conway	United States	75.90.47.13	Arkansas	72032
AS7029 Windstream Communications LLC	Somerset	United States	75.90.208.243	Kentucky	42503
AS7029 Windstream Communications LLC	Clarksville	United States	75.89.52.42	Georgia	30523
AS7029 Windstream Communications LLC	Elizabethtown	United States	75.88.249.40	Kentucky	42701
AS12083 WideOpenWest Finance LLC	St. Petersburg	United States	75.76.54.177	Florida	33713
AS7922 Comcast Cable Communications, LLC	Fort Lauderdale	United States	75.74.251.31	Florida	33301
AS7922 Comcast Cable Communications, LLC	Parker	United States	75.70.207.30	Colorado	80134
AS7922 Comcast Cable Communications, LLC	Nashua	United States	75.67.46.224	New Hampshire	03060
AS7922 Comcast Cable Communications, LLC	Germantown	United States	75.66.59.74	Tennessee	38138
AS7018 AT&T; Services, Inc.	Troy	United States	75.61.90.28	Michigan	48084
AS7018 AT&T; Services, Inc.	Birmingham	United States	75.37.53.145	Alabama	35244
AS11426 Time Warner Cable Internet LLC	Charlotte	United States	75.190.5.193	North Carolina	28203
AS10796 Time Warner Cable Internet LLC	Erie	United States	75.185.162.98	Pennsylvania	16508
AS11426 Time Warner Cable Internet LLC	Fayetteville	United States	75.178.13.146	North Carolina	28303
AS11426 Time Warner Cable Internet LLC	Lexington	United States	75.176.114.114	South Carolina	29072
AS209 Qwest Communications Company, LLC	Mesa	United States	75.167.5.116	Arizona	85213
AS209 Qwest Communications Company, LLC	Denver	United States	75.166.51.126	Colorado	80202
AS209 Qwest Communications Company, LLC	Fremont	United States	75.163.116.28	Nebraska	68025
AS852 TELUS Communications Inc.	Township of Langley	Canada	75.155.195.51	British Columbia	V3A
AS7922 Comcast Cable Communications, LLC	Union Lake	United States	75.151.30.198	Michigan	48387

AS7922 Comcast Cable Communications, LLC	Houston	United States	75.148.160.13	Texas	77011
AS7922 Comcast Cable Communications, LLC	Cherry Hill	United States	75.147.78.146	New Jersey	08002
AS33588 Charter Communications	Great Falls	United States	75.143.210.83	Montana	59405
AS20115 Charter Communications	Smithfield	United States	75.139.29.138	Virginia	23430
AS7029 Windstream Communications LLC	Chatsworth	United States	75.117.5.56	Georgia	30705
AS33363 BRIGHT HOUSE NETWORKS, LLC	Tampa	United States	75.115.125.182	Florida	33615
AS33363 BRIGHT HOUSE NETWORKS, LLC	Tampa	United States	75.115.118.221	Florida	33615
AS4181 TDS TELECOM	Spicer	United States	75.100.53.218	Minnesota	56288
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Mountain Top	United States	74.97.68.174	Pennsylvania	18707
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Takoma Park	United States	74.96.249.122	Maryland	20912
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Damascus	United States	74.96.104.32	Maryland	20872
AS7922 Comcast Cable Communications, LLC	Alameda	United States	74.95.10.206	California	94501
AS7922 Comcast Cable Communications, LLC	Renton	United States	74.93.98.238	Washington	98059
AS6181 Cincinnati Bell Telephone Company LLC	Cincinnati (Central Business District)	United States	74.83.89.61	Ohio	
AS11351 Time Warner Cable Internet LLC	Auburn	United States	74.75.25.213	Maine	04210
AS11351 Time Warner Cable Internet LLC	Bolivar	United States	74.69.153.171	New York	14715
AS12271 Time Warner Cable Internet LLC	New York	United States	74.68.96.132	New York	10029
AS12271 Time Warner Cable Internet LLC	Staten Island	United States	74.68.90.61	New York	10301
AS11351 Time Warner Cable Internet LLC	Albany	United States	74.67.45.143	New York	12206
AS26101 Yahoo!	Sunnyvale	United States	74.6.104.183	California	94089
AS5769 Videotron Telecom Ltee	Chicoutimi	Canada	74.57.235.52	Quebec	G7J
AS36351 SoftLayer Technologies Inc.	Dallas	United States	74.52.77.3	Texas	75244
AS3593 Frontier Communications of America, Inc.	York	United States	74.43.10.145	Pennsylvania	17406

AS7011 Frontier Communications of America, Inc.	Fort Dodge	United States	74.40.157.226	Iowa	50501
AS5650 Frontier Communications of America, Inc.	Rochester (Central Business District)	United States	74.35.232.107	New York	
AS14955 Northern Valley Communications LLC	Aberdeen	United States	74.221.173.140	South Dakota	57401
AS21688 GMP Cable TV	California	United States	74.214.57.184	Maryland	20619
AS14671 FairPoint Communications	East Chatham	United States	74.209.19.59	New York	12060
AS8560 1&1 Internet SE	Wayne	United States	74.208.152.127	Pennsylvania	19087
AS20453 Rogers Communications Canada Inc.	Redcliff	Canada	74.198.33.178	Alberta	
AS19108 Suddenlink Communications	Lake Charles	United States	74.196.211.104	Louisiana	70601
AS10796 Time Warner Cable Internet LLC	Newark	United States	74.140.89.171	Ohio	43055
AS10796 Time Warner Cable Internet LLC	Marysville	United States	74.140.26.250	Ohio	43040
AS10796 Time Warner Cable Internet LLC	Alexandria	United States	74.138.167.37	Kentucky	41001
AS10796 Time Warner Cable Internet LLC	Louisville	United States	74.136.104.31	Kentucky	40208
AS10796 Time Warner Cable Internet LLC	New Albany	United States	74.134.142.228	Indiana	47150
AS10796 Time Warner Cable Internet LLC	Shepherdsville	United States	74.131.102.101	Kentucky	40165
AS10796 Time Warner Cable Internet LLC	Corbin	United States	74.129.76.37	Kentucky	40701
AS394708 Horizon Telcom Inc.	Rio Grande	United States	74.126.76.146	Ohio	45674
AS577 Bell Canada	Toronto	Canada	74.12.88.138	Ontario	M2J
AS46562 Total Server Solutions L.L.C.	Atlanta	United States	74.119.147.163	Georgia	30303
AS3257 GTT Communications Inc.	Raritan	United States	74.112.84.144	New Jersey	08869
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Chesapeake	United States	74.110.107.172	Virginia	23320
AS7029 Windstream Communications LLC	Venus	United States	74.11.182.246	Florida	33960
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	New York	United States	74.108.56.249	New York	10003
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Liverpool	United States	74.106.18.71	New York	13088

AS7922 Comcast Cable Communications, LLC	Salt Lake City	United States	73.98.236.206	Utah	84116
AS7922 Comcast Cable Communications, LLC	Tacoma	United States	73.97.244.45	Washington	98409
AS7922 Comcast Cable Communications, LLC	Minneapolis	United States	73.94.40.30	Minnesota	55407
AS7922 Comcast Cable Communications, LLC	San Francisco	United States	73.93.132.197	California	94109
AS7922 Comcast Cable Communications, LLC	Alamo	United States	73.92.238.71	California	94507
AS7922 Comcast Cable Communications, LLC	San Francisco	United States	73.92.233.227	California	94114
AS7922 Comcast Cable Communications, LLC	Michigan City	United States	73.9.247.9	Indiana	46360
AS7922 Comcast Cable Communications, LLC	Elmwood Park	United States	73.9.185.211	Illinois	60707
AS7922 Comcast Cable Communications, LLC	Elkhart	United States	73.9.134.70	Indiana	46514
AS7922 Comcast Cable Communications, LLC	Philadelphia	United States	73.81.54.205	Pennsylvania	19124
AS7922 Comcast Cable Communications, LLC	Cypress	United States	73.77.123.92	Texas	77429
AS7922 Comcast Cable Communications, LLC	Schererville	United States	73.73.12.115	Indiana	46375
AS7922 Comcast Cable Communications, LLC	Huntley	United States	73.72.140.118	Illinois	60142
AS7922 Comcast Cable Communications, LLC	Kingston	United States	73.64.112.73	Pennsylvania	18704
AS7922 Comcast Cable Communications, LLC	Manchester	United States	73.60.50.245	New Hampshire	03104
AS7922 Comcast Cable Communications, LLC	Salem	United States	73.60.122.68	Massachusetts	01970
AS7922 Comcast Cable Communications, LLC	Spokane	United States	73.59.31.27	Washington	99206
AS7922 Comcast Cable Communications, LLC	Independence	United States	73.48.49.12	Missouri	64052
AS7922 Comcast Cable Communications, LLC	Bonney Lake	United States	73.42.208.2	Washington	98391
AS7922 Comcast Cable Communications, LLC	Burlington	United States	73.42.202.146	Washington	98233
AS7922 Comcast Cable Communications, LLC	Fredericksburg	United States	73.40.101.135	Virginia	22407
AS7922 Comcast Cable Communications, LLC	La Salle	United States	73.36.154.164	Illinois	61301
AS7922 Comcast Cable Communications, LLC	Egg Harbor	United States	73.33.167.176	New Jersey	08234
AS7922 Comcast Cable Communications, LLC	Deer Park	United States	73.32.113.83	Texas	77536

AS7922 Comcast Cable Communications, LLC	Mount Holly	United States	73.29.155.147	New Jersey	08060
AS7922 Comcast Cable Communications, LLC	Spring	United States	73.255.125.199	Texas	77379
AS7922 Comcast Cable Communications, LLC	Richmond	United States	73.251.22.39	Virginia	23228
AS7922 Comcast Cable Communications, LLC	District Heights	United States	73.250.70.10	Maryland	20747
AS7922 Comcast Cable Communications, LLC	Swedesboro	United States	73.248.133.44	New Jersey	08085
AS7922 Comcast Cable Communications, LLC	Pekin	United States	73.246.32.52	Illinois	61554
AS7922 Comcast Cable Communications, LLC	Orland Park	United States	73.246.193.70	Illinois	60467
AS7922 Comcast Cable Communications, LLC	Miami	United States	73.245.33.170	Florida	33142
AS7922 Comcast Cable Communications, LLC	Denver	United States	73.243.22.134	Colorado	80215
AS7922 Comcast Cable Communications, LLC	Hopkins	United States	73.242.86.20	Minnesota	55305
AS7922 Comcast Cable Communications, LLC	Vancouver	United States	73.240.130.240	Washington	98661
AS7922 Comcast Cable Communications, LLC	Berkeley	United States	73.231.246.166	California	94704
AS7922 Comcast Cable Communications, LLC	Naples	United States	73.23.235.190	Florida	34104
AS7922 Comcast Cable Communications, LLC	Fort Myers	United States	73.23.195.22	Florida	33907
AS7922 Comcast Cable Communications, LLC	Rahway	United States	73.226.157.23	New Jersey	07065
AS7922 Comcast Cable Communications, LLC	Saint Augustine	United States	73.224.241.163	Florida	32084
AS7922 Comcast Cable Communications, LLC	Lake City	United States	73.224.217.21	Florida	32024
AS7922 Comcast Cable Communications, LLC	San Francisco	United States	73.223.193.77	California	94122
AS7922 Comcast Cable Communications, LLC	Denver	United States	73.217.68.235	Colorado	80215
AS7922 Comcast Cable Communications, LLC	Richmond	United States	73.216.85.215	Virginia	23224
AS7922 Comcast Cable Communications, LLC	Edgewood	United States	73.212.98.47	Maryland	21040
AS7922 Comcast Cable Communications, LLC	Calumet City	United States	73.211.8.186	Illinois	60409
AS7922 Comcast Cable Communications, LLC	Melrose Park	United States	73.210.249.92	Illinois	60160
AS7922 Comcast Cable Communications, LLC	Rockford	United States	73.210.148.170	Illinois	61107

AS7922 Comcast Cable Communications, LLC	Decatur	United States	73.210.123.82	Illinois	62526
AS7922 Comcast Cable Communications, LLC	Savannah	United States	73.21.73.44	Georgia	31419
AS7922 Comcast Cable Communications, LLC	Villa Park	United States	73.209.154.104	Illinois	60181
AS7922 Comcast Cable Communications, LLC	Freeport	United States	73.209.12.225	Illinois	61032
AS7922 Comcast Cable Communications, LLC	Griffin	United States	73.207.79.27	Georgia	30223
AS7922 Comcast Cable Communications, LLC	Boynton Beach	United States	73.205.60.115	Florida	33435
AS7922 Comcast Cable Communications, LLC	Palm Beach Gardens	United States	73.205.159.68	Florida	33418
AS7922 Comcast Cable Communications, LLC	Miami	United States	73.204.157.198	Florida	33157
AS7922 Comcast Cable Communications, LLC	Santa Maria	United States	73.202.7.200	California	93455
AS7922 Comcast Cable Communications, LLC	Petaluma	United States	73.202.115.179	California	94952
AS7922 Comcast Cable Communications, LLC	Lutherville	United States	73.200.55.204	Maryland	21093
AS7922 Comcast Cable Communications, LLC	Washington	United States	73.200.106.96	District of Columbia	20008
AS7922 Comcast Cable Communications, LLC	Clark	United States	73.196.41.231	New Jersey	07066
AS7922 Comcast Cable Communications, LLC	Plainfield	United States	73.195.100.46	New Jersey	07060
AS7922 Comcast Cable Communications, LLC	Orange Park	United States	73.192.120.81	Florida	32065
AS7922 Comcast Cable Communications, LLC	East Hampton	United States	73.182.208.132	Connecticut	06424
AS7922 Comcast Cable Communications, LLC	Denver	United States	73.181.11.128	Colorado	80221
AS7922 Comcast Cable Communications, LLC	Grosse Pointe	United States	73.18.48.138	Michigan	48236
AS7922 Comcast Cable Communications, LLC	Sterling Heights	United States	73.18.225.224	Michigan	48313
AS7922 Comcast Cable Communications, LLC	Port Saint Lucie	United States	73.179.255.5	Florida	34953
AS7922 Comcast Cable Communications, LLC	Clark	United States	73.178.43.207	New Jersey	07066
AS7922 Comcast Cable Communications, LLC	Washington	United States	73.173.164.20	District of Columbia	20019
AS7922 Comcast Cable Communications, LLC	Arlington	United States	73.172.116.220	Virginia	22202
AS7922 Comcast Cable Communications, LLC	Houston	United States	73.166.224.209	Texas	77024

AS7922 Comcast Cable Communications, LLC	Baltimore	United States	73.163.56.147	Maryland	21217
AS7922 Comcast Cable Communications, LLC	San Francisco	United States	73.162.143.103	California	94121
AS7922 Comcast Cable Communications, LLC	Katy	United States	73.155.117.27	Texas	77449
AS7922 Comcast Cable Communications, LLC	Denver	United States	73.153.52.96	Colorado	80233
AS7922 Comcast Cable Communications, LLC	Fresno	United States	73.151.21.135	California	93702
AS7922 Comcast Cable Communications, LLC	Detroit	United States	73.144.128.207	Michigan	48234
AS7922 Comcast Cable Communications, LLC	South Weymouth	United States	73.142.15.4	Massachusetts	02190
AS7922 Comcast Cable Communications, LLC	Norwood	United States	73.141.59.121	Pennsylvania	19074
AS7922 Comcast Cable Communications, LLC	Philadelphia	United States	73.141.170.40	Pennsylvania	19147
AS7922 Comcast Cable Communications, LLC	Philadelphia	United States	73.141.17.112	Pennsylvania	19124
AS7922 Comcast Cable Communications, LLC	Upper Darby	United States	73.141.130.121	Pennsylvania	19082
AS7922 Comcast Cable Communications, LLC	Auburn	United States	73.140.139.156	Washington	98001
AS7922 Comcast Cable Communications, LLC	Opa-locka	United States	73.139.157.156	Florida	33055
AS7922 Comcast Cable Communications, LLC	Winder	United States	73.137.8.134	Georgia	30680
AS7922 Comcast Cable Communications, LLC	Manassas	United States	73.133.63.156	Virginia	20110
AS7922 Comcast Cable Communications, LLC	Gwynn Oak	United States	73.133.182.76	Maryland	21207
AS7922 Comcast Cable Communications, LLC	Scranton	United States	73.130.195.102	Pennsylvania	18501
AS7922 Comcast Cable Communications, LLC	Philadelphia	United States	73.13.158.108	Pennsylvania	19104
AS7922 Comcast Cable Communications, LLC	Philadelphia	United States	73.13.146.203	Pennsylvania	19146
AS7922 Comcast Cable Communications, LLC	Brockton	United States	73.123.79.153	Massachusetts	02301
AS7922 Comcast Cable Communications, LLC	Manchester	United States	73.123.104.108	New Hampshire	03103
AS7922 Comcast Cable Communications, LLC	Greeneville	United States	73.121.220.149	Tennessee	37743
AS7922 Comcast Cable Communications, LLC	Newtonville	United States	73.119.20.230	Massachusetts	02460
AS7922 Comcast Cable Communications, LLC	Peabody	United States	73.114.52.6	Massachusetts	01960

AS7922 Comcast Cable Communications, LLC	Bellingham	United States	73.11.210.252	Washington	98229
AS7922 Comcast Cable Communications, LLC	Indianapolis	United States	73.102.149.44	Indiana	46214
AS7922 Comcast Cable Communications, LLC	Boston	United States	73.100.48.143	Massachusetts	02118
AS7922 Comcast Cable Communications, LLC	Port Saint Lucie	United States	73.0.105.36	Florida	34952
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Queens Village	United States	72.89.40.8	New York	11429
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Centreville	United States	72.83.147.51	Virginia	20121
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Bowie	United States	72.83.142.151	Maryland	20720
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	King of Prussia	United States	72.78.254.124	Pennsylvania	19406
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Belleville	United States	72.76.206.130	New Jersey	07109
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Gloucester	United States	72.70.102.27	Massachusetts	01930
AS22258 Comcast Cable Communications, LLC	Middleton	United States	72.55.126.241	Tennessee	
AS30536 Circle Computer Resources, Inc.	Cedar Rapids	United States	72.50.234.58	Iowa	52402
AS6181 Cincinnati Bell Telephone Company LLC	Loveland	United States	72.49.33.30	Ohio	45140
AS62943 Bluebird Network	Gilman City	United States	72.35.161.234	Missouri	64642
AS25983 Enmax Envision Inc.	Calgary	Canada	72.29.255.3	Alberta	T3H
AS20940 Akamai International B.V.	Cambridge	United States	72.247.63.188	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	72.247.114.107	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	72.246.167.140	Massachusetts	02142
AS6983 Earthlink, Inc.	Miami	United States	72.242.226.9	Florida	
AS33363 BRIGHT HOUSE NETWORKS, LLC	Winter Park	United States	72.238.31.121	Florida	32792
AS11351 Time Warner Cable Internet LLC	Canandaigua	United States	72.230.230.54	New York	14424
AS12271 Time Warner Cable Internet LLC	Fort Lee	United States	72.225.112.168	New Jersey	07024
AS11351 Time Warner Cable Internet LLC	Albany	United States	72.224.106.58	New York	12203

AS22773 Cox Communications Inc.	Herndon	United States	72.209.196.179	Virginia	20171
AS22773 Cox Communications Inc.	New Orleans	United States	72.200.2.70	Louisiana	70114
AS13428 Surf Air Wireless, LLC	La Porte	United States	72.2.139.1	Indiana	46350
AS22773 Cox Communications Inc.	Ramona	United States	72.197.241.79	California	92065
AS11427 Time Warner Cable Internet LLC	Vidor	United States	72.191.113.8	Texas	77662
AS33363 BRIGHT HOUSE NETWORKS, LLC	Tampa	United States	72.187.219.89	Florida	33647
AS33363 BRIGHT HOUSE NETWORKS, LLC	St. Petersburg	United States	72.187.15.244	Florida	33707
AS33363 BRIGHT HOUSE NETWORKS, LLC	Plant City	United States	72.184.31.32	Florida	33563
AS11427 Time Warner Cable Internet LLC	Austin	United States	72.182.57.86	Texas	78705
AS11427 Time Warner Cable Internet LLC	San Antonio	United States	72.181.107.227	Texas	78212
AS11427 Time Warner Cable Internet LLC	Laredo	United States	72.179.226.202	Texas	78045
AS11427 Time Warner Cable Internet LLC	Beaumont	United States	72.178.232.62	Texas	77706
AS11427 Time Warner Cable Internet LLC	Corpus Christi	United States	72.176.123.69	Texas	78413
AS26496 GoDaddy.com, LLC	Scottsdale	United States	72.167.93.31	Arizona	85260
AS26496 GoDaddy.com, LLC	Scottsdale	United States	72.167.226.186	Arizona	85260
AS812 Rogers Communications Canada Inc.	Richmond	Canada	72.15.146.58	British Columbia	V6X
AS812 Rogers Communications Canada Inc.	Toronto	Canada	72.143.88.221	Ontario	M6J
AS23183 SWIFT SYSTEMS, INC.	Frederick	United States	72.13.97.48	Maryland	21704
AS20115 Charter Communications	East Wenatchee	United States	71.93.6.222	Washington	98802
AS20115 Charter Communications	St Louis	United States	71.86.44.173	Missouri	63129
AS10796 Time Warner Cable Internet LLC	Cleveland	United States	71.79.164.173	Ohio	44125
AS10796 Time Warner Cable Internet LLC	Mentor	United States	71.73.24.221	Ohio	44060
AS10796 Time Warner Cable Internet LLC	Mentor	United States	71.73.22.97	Ohio	44060

AS10796 Time Warner Cable Internet LLC	Mason	United States	71.67.125.202	Ohio	45040
AS7922 Comcast Cable Communications, LLC	Greensburg	United States	71.60.60.92	Pennsylvania	15601
AS7922 Comcast Cable Communications, LLC	Cape May	United States	71.58.62.87	New Jersey	08204
AS7922 Comcast Cable Communications, LLC	Lansdale	United States	71.58.16.213	Pennsylvania	19446
AS7922 Comcast Cable Communications, LLC	Denver	United States	71.56.244.146	Colorado	80209
AS7922 Comcast Cable Communications, LLC	Austell	United States	71.56.101.83	Georgia	30168
AS209 Qwest Communications Company, LLC	North Fort Myers	United States	71.54.9.53	Florida	33917
AS209 Qwest Communications Company, LLC	Las Vegas	United States	71.53.174.45	Nevada	89119
AS209 Qwest Communications Company, LLC	Dunkirk	United States	71.50.46.4	Ohio	45836
AS18494 Embarq Corporation	Jefferson City	United States	71.49.70.67	Missouri	65101
AS33363 BRIGHT HOUSE NETWORKS, LLC	Argyle	United States	71.41.109.136	Florida	32422
AS209 Qwest Communications Company, LLC	Las Vegas	United States	71.38.8.193	Nevada	89147
AS209 Qwest Communications Company, LLC	Las Vegas	United States	71.38.62.101	Nevada	89101
AS209 Qwest Communications Company, LLC	Missoula	United States	71.32.63.211	Montana	59801
AS7029 Windstream Communications LLC	London	United States	71.31.218.86	Kentucky	40744
AS7029 Windstream Communications LLC	Newark	United States	71.29.98.113	Ohio	43055
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Syracuse	United States	71.255.40.193	New York	13205
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Souderton	United States	71.244.98.55	Pennsylvania	18964
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Springfield	United States	71.241.248.150	Virginia	22152
AS7922 Comcast Cable Communications, LLC	West Lebanon	United States	71.235.190.240	New Hampshire	03784
AS7922 Comcast Cable Communications, LLC	Shelburne	United States	71.235.175.84	Vermont	05482

AS7922 Comcast Cable Communications, LLC	Concord	United States	71.234.227.53	Massachusetts	01742
AS7922 Comcast Cable Communications, LLC	Waterford	United States	71.227.67.151	Michigan	48329
AS209 Qwest Communications Company, LLC	North Las Vegas	United States	71.222.98.127	Nevada	89032
AS209 Qwest Communications Company, LLC	Seattle	United States	71.217.38.85	Washington	98122
AS209 Qwest Communications Company, LLC	Minneapolis	United States	71.215.193.163	Minnesota	55406
AS209 Qwest Communications Company, LLC	Mount Vernon	United States	71.213.239.240	Ohio	43050
AS7922 Comcast Cable Communications, LLC	Charlottesville	United States	71.206.169.140	Virginia	22901
AS7922 Comcast Cable Communications, LLC	Greeley	United States	71.205.165.66	Colorado	80634
AS7922 Comcast Cable Communications, LLC	Richmond	United States	71.202.173.42	California	94804
AS7922 Comcast Cable Communications, LLC	Napa	United States	71.202.118.153	California	94558
AS7922 Comcast Cable Communications, LLC	Lehi	United States	71.199.10.89	Utah	84043
AS7922 Comcast Cable Communications, LLC	Santa Cruz	United States	71.198.219.153	California	95060
AS7922 Comcast Cable Communications, LLC	Richmond	United States	71.198.175.49	California	94804
AS7922 Comcast Cable Communications, LLC	Boynton Beach	United States	71.196.108.176	Florida	33436
AS7922 Comcast Cable Communications, LLC	Merced	United States	71.195.106.7	California	95340
AS7922 Comcast Cable Communications, LLC	Westfield	United States	71.192.223.38	Massachusetts	01085
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Haledon	United States	71.187.254.75	New Jersey	07508
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Glenside	United States	71.185.180.155	Pennsylvania	19038
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Danvers	United States	71.184.87.159	Massachusetts	01923
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Andover	United States	71.184.123.247	Massachusetts	01810
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Brooklyn	United States	71.183.204.155	New York	11201

AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Irwin	United States	71.182.245.215	Pennsylvania	15642
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Baltimore	United States	71.179.212.207	Maryland	21212
AS13977 FAIRPOINT COMMUNICATIONS, INC.	Falmouth	United States	71.173.67.14	Maine	04105
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Salem	United States	71.171.20.80	Virginia	24153
AS13672 FAIRPOINT COMMUNICATIONS, INC.	Canterbury	United States	71.168.92.130	New Hampshire	03224
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Parkville	United States	71.166.50.71	Maryland	21234
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Hudson	United States	71.164.67.41	New York	12534
AS20115 Charter Communications	Imperial	United States	71.15.66.37	Missouri	63052
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Howard Beach	United States	71.105.10.179	New York	11414
AS11427 Time Warner Cable Internet LLC	Liberty	United States	70.94.32.157	Missouri	64068
AS7922 Comcast Cable Communications, LLC	Chicago	United States	70.91.99.61	Illinois	60618
AS7922 Comcast Cable Communications, LLC	Seattle	United States	70.91.201.254	Washington	98144
AS6327 Shaw Communications Inc.	Sault Ste. Marie	Canada	70.76.4.166	Ontario	P6A
AS10796 Time Warner Cable Internet LLC	Dayton	United States	70.61.43.161	Ohio	45424
AS209 Qwest Communications Company, LLC	Santa Fe	United States	70.56.132.176	New Mexico	87505
AS30170 Isomedia, Inc.	Enumclaw	United States	70.35.116.135	Washington	98022
AS7018 AT&T; Services, Inc.	Janesville	United States	70.226.139.241	Wisconsin	53546
AS7018 AT&T; Services, Inc.	Janesville	United States	70.226.134.252	Wisconsin	53546
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Plainfield	United States	70.21.202.144	New Jersey	07060
AS22773 Cox Communications Inc.	Chandler	United States	70.176.20.137	Arizona	85224
AS22773 Cox Communications Inc.	Las Vegas	United States	70.170.33.60	Nevada	89121

AS14878 Pixius Communications, LLC	Buhler	United States	70.169.121.132	Kansas	67522
AS22773 Cox Communications Inc.	Mesa	United States	70.162.173.9	Arizona	85212
AS7018 AT&T; Services, Inc.	Atlanta (Buckhead)	United States	70.159.204.95	Georgia	
AS11427 Time Warner Cable Internet LLC	Richardson	United States	70.121.51.33	Texas	75081
AS19397 ACN	Calgary	Canada	69.9.119.25	Alberta	T3J
AS53423 Brazos WiFi	Hearne	United States	69.5.218.234	Texas	77859
AS22561 CenturyTel Internet Holdings, Inc.	Hartman	United States	69.29.198.69	Arkansas	72840
AS13768 Cogeco Peer 1	Montreal	Canada	69.28.244.88	Quebec	H2Z
AS7922 Comcast Cable Communications, LLC	Rosedale	United States	69.251.167.84	Maryland	21237
AS7922 Comcast Cable Communications, LLC	Phoenixville	United States	69.249.1.125	Pennsylvania	19460
AS7922 Comcast Cable Communications, LLC	Ocean City	United States	69.248.13.159	New Jersey	08226
AS7922 Comcast Cable Communications, LLC	East Orange	United States	69.248.120.241	New Jersey	07018
AS7922 Comcast Cable Communications, LLC	Hernando	United States	69.247.188.27	Mississippi	38632
AS7922 Comcast Cable Communications, LLC	Crawfordville	United States	69.244.223.247	Florida	32327
AS7018 AT&T; Services, Inc.	Grandville	United States	69.217.233.101	Michigan	49418
AS11351 Time Warner Cable Internet LLC	Buffalo	United States	69.204.15.25	New York	14207
AS19271 Peak 10	Charlotte	United States	69.2.217.37	North Carolina	28202
AS7922 Comcast Cable Communications, LLC	Gallatin	United States	69.180.217.141	Tennessee	37066
AS22561 CenturyTel Internet Holdings, Inc.	Sparta	United States	69.179.12.158	Wisconsin	54656
AS395111 KVHOSTING.COM LLC	Edmond	United States	69.171.216.195	Oklahoma	73083
AS32244 Liquid Web, L.L.C	Lansing	United States	69.167.171.195	Michigan	48917
AS26347 New Dream Network, LLC	Brea	United States	69.163.177.62	California	92821
AS7922 Comcast Cable Communications, LLC	Parkville	United States	69.143.69.102	Maryland	21234
AS7922 Comcast Cable Communications, LLC	Moorestown	United States	69.142.41.156	New Jersey	08057
AS7922 Comcast Cable Communications, LLC	Brentwood	United States	69.139.237.101	Tennessee	37024
AS7922 Comcast Cable Communications, LLC	Nashville	United States	69.139.112.1	Tennessee	37211

AS4181 TDS TELECOM	Butler	United States	69.129.15.221	Alabama	36904
AS6128 Cablevision Systems Corp.	Ossining	United States	69.114.98.239	New York	10562
AS7922 Comcast Cable Communications, LLC	Washington Township (Turnersville)	United States	68.86.7.52	New Jersey	
AS7922 Comcast Cable Communications, LLC	Mount Plymouth	United States	68.86.59.65	Florida	
AS7922 Comcast Cable Communications, LLC	West Chester	United States	68.85.50.66	Pennsylvania	19381
AS7018 AT&T; Services, Inc.	Indianapolis	United States	68.77.64.174	Indiana	
AS46696 Sidus Group, LLC	Ruckersville	United States	68.69.1.2	Virginia	22968
AS21769 Colocation America Corporation	Los Angeles	United States	68.66.115.242	California	90025
AS7922 Comcast Cable Communications, LLC	Detroit	United States	68.60.161.223	Michigan	48228
AS7922 Comcast Cable Communications, LLC	Port Huron	United States	68.55.37.19	Michigan	48060
AS7922 Comcast Cable Communications, LLC	Muskegon	United States	68.55.206.206	Michigan	49444
AS7922 Comcast Cable Communications, LLC	Mount Juliet	United States	68.52.30.246	Tennessee	37122
AS7922 Comcast Cable Communications, LLC	Dunkirk	United States	68.51.12.156	Indiana	47336
AS7922 Comcast Cable Communications, LLC	Detroit	United States	68.41.247.186	Michigan	48234
AS7922 Comcast Cable Communications, LLC	Richmond	United States	68.38.36.251	Indiana	47374
AS7922 Comcast Cable Communications, LLC	Plainfield	United States	68.38.192.111	Indiana	46168
AS7922 Comcast Cable Communications, LLC	Grand Blanc	United States	68.37.76.167	Michigan	48439
AS7922 Comcast Cable Communications, LLC	Florence	United States	68.35.47.75	Alabama	35630
AS22773 Cox Communications Inc.	Laguna Hills	United States	68.225.228.218	California	92653
AS33363 BRIGHT HOUSE NETWORKS, LLC	DeLand	United States	68.202.39.244	Florida	32720
AS33363 BRIGHT HOUSE NETWORKS, LLC	Tampa	United States	68.200.152.181	Florida	33637
AS10835 Visionary Communications, Inc.	Gillette	United States	68.170.54.123	Wyoming	82718
AS17378 TIERPOINT PENNSYLVANIA TWO LLC	Narberth	United States	68.168.80.171	Pennsylvania	19072
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	New York	United States	68.132.152.146	New York	10011

AS20115 Charter Communications	Modesto	United States	68.116.89.4	California	95351
AS22773 Cox Communications Inc.	Tulsa	United States	68.0.126.200	Oklahoma	74104
AS6128 Cablevision Systems Corp.	Paterson	United States	67.84.136.252	New Jersey	07504
AS6128 Cablevision Systems Corp.	Parlin	United States	67.82.102.133	New Jersey	08859
AS33363 BRIGHT HOUSE NETWORKS, LLC	Sanford	United States	67.8.116.105	Florida	32771
AS20001 Time Warner Cable Internet LLC	Palm Desert	United States	67.49.81.146	California	92260
AS20001 Time Warner Cable Internet LLC	Yucca Valley	United States	67.49.115.37	California	92284
AS11427 Time Warner Cable Internet LLC	Harlingen	United States	67.48.184.87	Texas	78550
AS209 Qwest Communications Company, LLC	Saint Paul	United States	67.4.207.202	Minnesota	55105
AS209 Qwest Communications Company, LLC	Ankeny	United States	67.3.114.66	Iowa	50021
AS11351 Time Warner Cable Internet LLC	Cohoes	United States	67.252.11.132	New York	12047
AS12271 Time Warner Cable Internet LLC	Pleasant Valley	United States	67.250.115.1	New York	12569
AS11351 Time Warner Cable Internet LLC	Rome	United States	67.242.49.62	New York	13440
AS209 Qwest Communications Company, LLC	Franklin	United States	67.236.35.213	Indiana	46131
AS22742 Connecticut Education Network	Hartford	United States	67.218.95.111	Connecticut	06103
AS33647 Yadkin Valley Telephone	Advance	United States	67.213.33.60	North Carolina	27006
AS55293 A2 Hosting, Inc.	Ann Arbor	United States	67.209.121.195	Michigan	48106
AS11215 Logix	Houston	United States	67.200.237.49	Texas	77002
AS209 Qwest Communications Company, LLC	Bountiful	United States	67.2.62.251	Utah	84010
AS36647 Yahoo	Sunnyvale	United States	67.195.228.65	California	94089
AS7922 Comcast Cable Communications, LLC	Parker	United States	67.190.191.97	Colorado	80134
AS7922 Comcast Cable Communications, LLC	Breckenridge	United States	67.190.154.138	Colorado	80424
AS7922 Comcast Cable Communications, LLC	Marysville	United States	67.185.138.177	Washington	98270
AS7922 Comcast Cable Communications, LLC	Fresno	United States	67.181.196.133	California	93727

AS7922 Comcast Cable Communications, LLC	Fresno	United States	67.181.140.34	California	93722
AS7922 Comcast Cable Communications, LLC	Chicago	United States	67.175.64.240	Illinois	60609
AS7922 Comcast Cable Communications, LLC	Chico	United States	67.174.147.164	California	95928
AS7922 Comcast Cable Communications, LLC	Carnegie	United States	67.165.45.195	Pennsylvania	15106
AS7922 Comcast Cable Communications, LLC	Joliet	United States	67.165.144.15	Illinois	60432
AS7922 Comcast Cable Communications, LLC	San Jose	United States	67.164.14.102	California	95110
AS7029 Windstream Communications LLC	Douglas	United States	67.141.27.125	Georgia	31535
AS7029 Windstream Communications LLC	Clarksville	United States	67.140.221.35	Georgia	30523
AS7029 Windstream Communications LLC	Clarksville	United States	67.140.198.113	Georgia	30523
AS209 Qwest Communications Company, LLC	Denver	United States	67.131.112.235	Colorado	
AS2828 MCI Communications Services, Inc. d/b/a Verizon Business	Philadelphia	United States	67.110.177.222	Pennsylvania	19131
AS209 Qwest Communications Company, LLC	Rio Rancho	United States	67.0.44.229	New Mexico	87124
AS42831 UK Dedicated Servers Limited	London	United Kingdom	66.78.45.180	England	EC2V
AS10796 Time Warner Cable Internet LLC	Westlake	United States	66.61.70.136	Ohio	44145
AS14051 Consolidated Communications, Inc.	Roseville	United States	66.60.180.41	California	95661
AS14858 Hanson Information Systems, Inc. / Family Net	Murrayville	United States	66.51.185.231	Illinois	62668
AS7922 Comcast Cable Communications, LLC	Stillwater	United States	66.41.205.221	Minnesota	55082
AS11979 Bluegrass Network LLC	Jamestown	United States	66.38.15.10	Kentucky	42629
AS8001 Net Access Corporation	Denver	United States	66.29.66.53	Colorado	80202
AS15169 Google LLC	Ashburn	United States	66.249.91.71	Virginia	
AS11351 Time Warner Cable Internet LLC	Jamestown	United States	66.24.251.52	New York	14701
AS7922 Comcast Cable Communications, LLC	Delray Beach	United States	66.229.183.233	Florida	33483
AS63949 Linode, LLC	Newark	United States	66.228.32.247	New Jersey	07175

AS7341 Velocity Network, Inc.	Edinboro	United States	66.211.237.150	Pennsylvania	16412
AS12247 Tri-Rivers Educational Computer Association	Marysville	United States	66.203.33.95	Ohio	43040
AS20115 Charter Communications	Saginaw	United States	66.188.40.53	Michigan	48601
AS7922 Comcast Cable Communications, LLC	Hollywood	United States	66.176.45.63	Florida	33021
AS7922 Comcast Cable Communications, LLC	Hollywood	United States	66.176.233.228	Florida	33022
AS20115 Charter Communications	Fort Worth	United States	66.169.115.207	Texas	76123
AS20115 Charter Communications	Milledgeville	United States	66.168.201.151	Georgia	31061
AS3549 Level 3 Communications, Inc.	High Point	United States	66.162.6.169	North Carolina	27265
AS16966 AT&T; Internet Services	Los Angeles	United States	66.161.64.201	California	
AS3737 PenTeleData Inc.	Kingston	United States	66.152.136.17	Pennsylvania	18704
AS7018 AT&T; Services, Inc.	Springfield	United States	66.137.182.151	Missouri	
AS7132 AT&T; Internet Services	Los Angeles	United States	66.125.206.176	California	
AS32392 The Endurance International Group, Inc.	Burlington	United States	66.116.205.2	Massachusetts	01803
AS22980 Apogee Telecom Inc.	Austin	United States	66.112.254.106	Texas	78705
AS12271 Time Warner Cable Internet LLC	New York	United States	66.108.252.232	New York	10034
AS12271 Time Warner Cable Internet LLC	New York	United States	66.108.22.247	New York	10033
AS3356 Level 3 Communications, Inc.	Kansas City (Financial District)	United States	65.77.220.169	Missouri	
AS5650 Frontier Communications of America, Inc.	Fort Wayne	United States	65.73.53.67	Indiana	46807
AS12083 WideOpenWest Finance LLC	Westerville	United States	65.60.165.30	Ohio	43081
AS2828 MCI Communications Services, Inc. d/b/a Verizon Business	Cleveland	United States	65.47.103.106	Ohio	44124
AS7922 Comcast Cable Communications, LLC	Boca Raton	United States	65.34.254.108	Florida	33432
AS7922 Comcast Cable Communications, LLC	Hallandale	United States	65.34.139.114	Florida	33009
AS33363 BRIGHT HOUSE NETWORKS, LLC	St. Petersburg	United States	65.32.45.231	Florida	33709

AS10796 Time Warner Cable Internet LLC	Elyria	United States	65.25.91.131	Ohio	44035
AS10796 Time Warner Cable Internet LLC	Chardon	United States	65.25.59.253	Ohio	44024
AS7029 Windstream Communications LLC	Charlotte	United States	65.23.108.17	North Carolina	28205
AS11426 Time Warner Cable Internet LLC	Cary	United States	65.190.50.194	North Carolina	27518
AS6939 Hurricane Electric, Inc.	Fremont	United States	65.19.162.116	California	94539
AS11426 Time Warner Cable Internet LLC	Thomasville	United States	65.188.227.158	North Carolina	27360
AS7393 CYBERCON, INC.	St Louis	United States	65.175.73.184	Missouri	63101
AS209 Qwest Communications Company, LLC	Chandler	United States	65.152.154.37	Arizona	85248
AS209 Qwest Communications Company, LLC	Boise	United States	65.129.73.100	Idaho	83707
AS209 Qwest Communications Company, LLC	Minneapolis	United States	65.128.152.3	Minnesota	55407
AS4181 TDS TELECOM	Clayton	United States	64.83.166.219	Michigan	49235
AS7018 AT&T; Services, Inc.	Bath Springs	United States	64.7.230.123	Tennessee	38311
AS14265 TPx Communications	Los Angeles	United States	64.60.90.89	California	90009
AS32262 Industry I-Net, Inc.	Industry	United States	64.253.71.150	Texas	78944
AS2828 MCI Communications Services, Inc. d/b/a Verizon Business	Grand Prairie	United States	64.245.100.245	Texas	75051
AS22275 Securenet Systems, Inc.	Pompano Beach	United States	64.234.208.243	Florida	33076
AS3356 Level 3 Communications, Inc.	New York	United States	64.200.131.92	New York	
AS3356 Level 3 Communications, Inc.	New York	United States	64.194.153.48	New York	
AS3356 Level 3 Communications, Inc.	New York	United States	64.193.159.152	New York	
AS7029 Windstream Communications LLC	Hartshorne	United States	64.19.57.104	Oklahoma	74547
AS54489 CoreSpace, Inc.	Dallas	United States	64.182.47.43	Texas	75247
AS15227 LUMOS Networks, Inc.	Gay	United States	64.181.64.113	West Virginia	25244
AS21565 Horry Telephone Cooperative, Inc.	Myrtle Beach	United States	64.138.204.106	South Carolina	29587
AS55016 Imperium Inc.	Orlando	United States	64.132.240.74	Florida	

AS31815 Media Temple, Inc.	Culver City	United States	64.13.235.100	California	90232
AS26347 New Dream Network, LLC	Brea	United States	64.111.117.90	California	92821
AS209 Qwest Communications Company, LLC	Vail	United States	63.235.91.35	Colorado	81658
AS14567 Springs Hosting	Colorado Springs	United States	63.235.164.183	Colorado	
AS209 Qwest Communications Company, LLC	Denver	United States	63.227.40.244	Colorado	80205
AS7782 Alaska Communications Systems Group, Inc.	Juneau	United States	63.140.80.73	Alaska	99801
AS33739 Myspace, Inc.	Cypress	United States	63.135.85.66	California	90630
AS1267 Wind Telecomunicazioni SpA	Naples	Italy	62.98.138.40	Campania	80131
AS1267 Wind Telecomunicazioni SpA	Salerno	Italy	62.98.12.33	Campania	84131
AS49800 GNC-Alfa CJSC	Abovyan	Armenia	62.89.21.90	Kotayk'i Marz	
AS6739 Vodafone Ono, S.A.	Zaragoza	Spain	62.83.237.163	Aragon	50018
AS174 Cogent Communications	London	United Kingdom	62.73.8.54	England	
AS34145 LLC TOMTEL	Tomsk	Russia	62.68.130.71	Tomskaya Oblast'	634021
AS9158 Telenor A/S	Copenhagen	Denmark	62.66.178.10	Capital Region	1513
AS12357 Vodafone Spain	Argentona	Spain	62.57.65.59	Catalonia	08310
AS8447 A1 Telekom Austria AG	Korneuburg	Austria	62.46.86.2	Lower Austria	2100
AS8426 Claranet Ltd	London	United Kingdom	62.231.144.221	England	
AS8918 Coolwave Communications B.V.	Nieuw-Vennep	Netherlands	62.223.189.149	North Holland	
AS8918 Coolwave Communications B.V.	Amsterdam (Amsterdam-Zuidoost)	Netherlands	62.222.128.113	North Holland	
AS8918 Coolwave Communications B.V.	Amsterdam (Amsterdam-Zuidoost)	Netherlands	62.222.126.144	North Holland	
AS1547 JSCC Interdnestrom	Tiraspol	Republic of Moldova	62.221.90.44	Unitatea Teritoriala din Stinga Nistrului	md-3300
AS12876 Online S.a.s.	Vitry-sur-Seine	France	62.210.208.245	Île-de-France	
AS12876 Online S.a.s.	Vitry-sur-Seine	France	62.210.146.233	Île-de-France	
AS12876 Online S.a.s.	Vitry-sur-Seine	France	62.210.123.106	Île-de-France	
AS6830 Liberty Global Operations B.V.	Spijkenisse	Netherlands	62.195.8.127	South Holland	3208
AS702 MCI Communications Services, Inc. d/b/a Verizon Business	Thames Ditton	United Kingdom	62.189.215.160	England	KT7
AS9136 Wobcom GmbH	Wolfsburg	Germany	62.176.229.176	Lower Saxony	38444

AS6730 Sunrise Communications AG	Basel	Switzerland	62.167.194.164	Basel-City	4052
AS6730 Sunrise Communications AG	Bern	Switzerland	62.167.113.248	Bern	3008
AS20845 DIGI Tavkozlesi es Szolgaltato Kft.	Budapest	Hungary	62.165.249.114	Budapest	1012
AS3320 Deutsche Telekom AG	Essen	Germany	62.153.135.217	North Rhine-Westphalia	45257
AS12479 Orange Espagne SA	Loja	Spain	62.151.100.210	Andalusia	18300
AS12715 Orange Espagne S.A.U.	Muro del Alcoy	Spain	62.14.189.91	Valencia	03830
AS12824 home.pl S.A.	Szczecin	Poland	62.129.218.38	West Pomeranian Voivodeship	
AS12797 BT Italia S.p.A.	Bologna	Italy	62.123.83.58	Emilia-Romagna	40125
AS1299 Telia Company AB	Farsta	Sweden	62.115.144.70	Stockholm	
AS8612 Tiscali SpA	Rome	Italy	62.10.70.226	Latium	00134
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	61.99.117.151	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	61.82.168.30	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	61.72.176.220	Seoul	
AS9416 Hoshin Multimedia Center Inc.	Fenjiu	Taiwan	61.71.77.132	Taiwan	
AS131090 CAT TELECOM Public Company Ltd,CAT	Bangkok	Thailand	61.7.183.250	Bangkok	96468
AS4662 GCNet (Reach & Range Inc.)	Yilan	Taiwan	61.58.101.125	Yilan	
AS131596 TBC	Taipei	Taiwan	61.57.64.52	Taipei City	
	Sibu	Malaysia	61.4.113.58	Sarawak	96000
AS3786 LG DACOM Corporation	Jeonju (Palbokdong 4(sa)-ga)	Republic of Korea	61.36.231.64	Jeollabuk-do	
AS3786 LG DACOM Corporation	Seoul	Republic of Korea	61.36.206.78	Seoul	
AS38684 CMB Daejeon Broadcasting Co.,Ltd	Daejeon	Republic of Korea	61.251.8.85	Daejeon	
AS38661 purplestones	Seoul (Teheran-ro 25-gil)	Republic of Korea	61.250.141.135	Seoul	
AS9394 China TieTong Telecommunications Corporation	Beijing	China	61.237.143.23	Beijing	
AS2516 KDDI CORPORATION	Shinjuku	Japan	61.215.15.211	Kanagawa	
AS9829 National Internet Backbone	Rewari	India	61.2.109.45	Haryana	123401
AS4837 CHINA UNICOM China169 Backbone	Tianjin	China	61.181.140.105	Tianjin	

AS4837 CHINA UNICOM China169 Backbone	Harbin	China	61.180.220.86	Heilongjiang	
AS4837 CHINA UNICOM China169 Backbone	Daqing	China	61.167.231.118	Heilongjiang	
AS4134 No.31,Jin-rong Street	Xiamen	China	61.154.197.199	Fujian	
AS4134 No.31,Jin-rong Street	Zhuhai	China	61.145.229.84	Guangdong	
AS4837 CHINA UNICOM China169 Backbone	Chaoyang	China	61.137.234.98	Liaoning	
AS17864 TBROAD HANVIT BROADCASTING CO.,LTD.	Seoul	Republic of Korea	61.106.205.194	Seoul	
AS17839 CJ Hello Co., Ltd.	Seoul	Republic of Korea	61.102.116.124	Seoul	
AS9318 SK Broadband Co Ltd	Incheon	Republic of Korea	61.101.193.184	Incheon	
AS9829 National Internet Backbone	Bengaluru	India	61.1.141.25	Karnataka	560032
AS9829 National Internet Backbone	Kota	India	61.0.33.215	Rajasthan	324005
AS17676 Softbank BB Corp.	Ogaki	Japan	60.99.115.166	Gifu	500-8802
AS17676 Softbank BB Corp.	Ojimacho	Japan	60.95.67.250	Gunma	370-0402
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	60.9.123.190	Hebei	
AS17676 Softbank BB Corp.	Tokyo	Japan	60.86.157.63	Tokyo	190-0031
AS17676 Softbank BB Corp.	Tokyo	Japan	60.73.136.187	Tokyo	190-0031
AS17676 Softbank BB Corp.	Tokyo	Japan	60.65.196.56	Tokyo	190-0031
AS9824 Jupiter Telecommunication Co. Ltd	Chiba	Japan	60.60.196.222	Chiba	260-0854
AS4788 TM Net, Internet Service Provider	Ipoh	Malaysia	60.52.78.179	Perak	31400
AS4788 TM Net, Internet Service Provider	Johor Bahru	Malaysia	60.50.86.137	Johor	81100
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	60.5.126.159	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	60.3.106.138	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Tianjin	China	60.25.93.232	Tianjin	
AS7545 TPG Telecom Limited	Coorparoo	Australia	60.240.104.196	Queensland	4151
AS2518 BIGLOBE Inc.	Utsunomiya	Japan	60.237.3.106	Tochigi	320-0032

AS4837 CHINA UNICOM China169 Backbone	Taiyuan	China	60.223.5.181	Shanxi	
AS4837 CHINA UNICOM China169 Backbone	Binzhou	China	60.215.4.142	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Zibo	China	60.215.251.56	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Yantai	China	60.212.84.41	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Weihai	China	60.212.195.173	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Weihai	China	60.212.137.126	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	60.208.232.212	Shandong	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	60.205.41.217	Zhejiang	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	60.205.110.192	Zhejiang	
AS9924 Taiwan Fixed Network, Telco and Network Service Provider.	Taipei	Taiwan	60.199.199.83	Taipei City	
AS3786 LG DACOM Corporation	Seoul (Hangang-daero)	Republic of Korea	60.197.9.46	Seoul	
AS4134 No.31,Jin-rong Street	Linhai	China	60.189.54.62	Zhejiang	
AS4134 No.31,Jin-rong Street	Linhai	China	60.188.75.176	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	60.186.1.104	Zhejiang	
AS4134 No.31,Jin-rong Street	Lishui	China	60.184.162.148	Zhejiang	
AS4134 No.31,Jin-rong Street	Shaoxing	China	60.183.47.49	Zhejiang	
AS4134 No.31,Jin-rong Street	Ningbo	China	60.178.136.83	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	60.177.44.182	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	60.177.12.206	Zhejiang	
AS4134 No.31,Jin-rong Street	Huainan	China	60.167.163.224	Anhui	
AS4134 No.31,Jin-rong Street	Hefei	China	60.166.218.233	Anhui	
AS4134 No.31,Jin-rong Street	Taizhou	China	60.162.215.150	Jiangsu	
AS4134 No.31,Jin-rong Street	Kunming	China	60.161.249.32	Yunnan	
AS17676 Softbank BB Corp.	Tokyo	Japan	60.147.92.250	Tokyo	190-0031

AS17676 Softbank BB Corp.	Iwade	Japan	60.139.124.146	Wakayama	649-6225
AS17676 Softbank BB Corp.	Tokyo	Japan	60.125.44.243	Tokyo	190-0031
AS17676 Softbank BB Corp.	Tokyo	Japan	60.119.254.9	Tokyo	190-0031
AS17676 Softbank BB Corp.	Tokyo	Japan	60.112.204.184	Tokyo	190-0031
AS17676 Softbank BB Corp.	Nagoya	Japan	60.107.75.199	Aichi	461-0019
AS9829 National Internet Backbone	Thiruvananthapuram	India	59.98.98.100	Kerala	
AS9829 National Internet Backbone	Jodhpur	India	59.96.70.70	Rajasthan	342005
AS4134 No.31,Jin-rong Street	Nanchang	China	59.62.18.102	Jiangxi	
AS4134 No.31,Jin-rong Street	Nanchang	China	59.55.16.208	Jiangxi	
AS4134 No.31,Jin-rong Street	Panjin	China	59.45.1.162	Liaoning	
AS4766 Korea Telecom	Changwon	Republic of Korea	59.4.168.190	Gyeongsangnam-do	
AS4766 Korea Telecom	Gumi	Republic of Korea	59.23.62.247	Gyeongsangbuk-do	
AS4766 Korea Telecom	Sacheon	Republic of Korea	59.23.53.101	North Chungcheong	
AS4766 Korea Telecom	Jeonju	Republic of Korea	59.2.60.131	Jeollabuk-do	
AS56132 Monash University	Monash	Australia	59.191.215.160	South Australia	5342
AS4766 Korea Telecom	Busan	Republic of Korea	59.19.188.142	Busan	
AS17813 Mahanagar Telephone Nigam Limited	Mumbai	India	59.184.98.109	Maharashtra	
AS17813 Mahanagar Telephone Nigam Limited	New Delhi (Janpath)	India	59.176.216.89	NCT	
AS4755 TATA Communications formerly VSNL is Leading ISP	Anand	India	59.163.182.92	Gujarat	388001
AS4766 Korea Telecom	Incheon	Republic of Korea	59.16.65.93	Incheon	
AS2516 KDDI CORPORATION	Ube	Japan	59.135.250.117	Yamaguchi	752-0927
AS4766 Korea Telecom	Seoul	Republic of Korea	59.12.246.148	Seoul	
AS45173 Seamico Securities Public Company Limited	Nonthaburi	Thailand	58.97.9.80	Changwat Nonthaburi	10250

AS4713 NTT Communications Corporation	Morioka	Japan	58.88.25.99	Iwate	020-0023
AS4739 Internode Pty Ltd	Darwin	Australia	58.7.47.105	Northern Territory	0800
AS17444 AS number for New World Telephone Ltd.	City of Victoria	Hong Kong	58.64.235.241	Central and Western District	
AS4134 No.31,Jin-rong Street	Wuhan	China	58.52.167.23	Hubei	
AS4134 No.31,Jin-rong Street	Wuhan	China	58.50.79.173	Hubei	
AS4134 No.31,Jin-rong Street	Wuhan	China	58.49.34.62	Hubei	
AS4134 No.31,Jin-rong Street	Yiyang	China	58.47.129.241	Hunan	
AS17435 Vodafone Next Generation Services Limited	Auckland	New Zealand	58.28.157.245	Auckland	1010
AS17816 China Unicom IP network China169 Guangdong province	Dongguan	China	58.252.20.138	Guangdong	
AS4837 CHINA UNICOM China169 Backbone	Changchun	China	58.244.107.135	Jilin	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	58.238.109.120	Seoul	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	58.236.223.15	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	58.236.195.97	Seoul	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	58.231.56.164	Seoul	
AS9318 SK Broadband Co Ltd	Sejong	Republic of Korea	58.227.163.101	Sejong-si	
AS4134 No.31,Jin-rong Street	Changzhou	China	58.216.182.253	Jiangsu	
AS4837 CHINA UNICOM China169 Backbone	Changchun	China	58.21.7.117	Jilin	
AS4134 No.31,Jin-rong Street	Chengxiang	China	58.208.77.142	Jiangsu	
AS4134 No.31,Jin-rong Street	Suzhou	China	58.208.243.143	Jiangsu	
AS4134 No.31,Jin-rong Street	Suzhou	China	58.208.155.88	Jiangsu	
AS18403 The Corporation for Financing & Promoting Technology	Ap Tan Phu	Vietnam	58.187.242.85	Tinh Tra Vinh	
AS18403 The Corporation for Financing & Promoting Technology	Hanoi	Vietnam	58.187.120.71	Thanh Pho Ha Noi	
AS4760 PCCW Limited	Tin Shui Wai	Hong Kong	58.152.213.54	Yuen Long District	

AS9698 CJ Hello Co., Ltd.	Gangneung-si (Gangneung-daero)	Republic of Korea	58.146.204.16	Gangwon-do	
AS4837 CHINA UNICOM China169 Backbone	Chongqing	China	58.144.133.50	Chongqing	
AS10036 DLIVE	Seoul	Republic of Korea	58.142.143.45	Seoul	
AS10036 DLIVE	Seoul	Republic of Korea	58.141.241.92	Seoul	
AS10036 DLIVE	Seoul (Chungjeong-ro)	Republic of Korea	58.140.80.164	Seoul	
AS10036 DLIVE	Namyangju	Republic of Korea	58.140.140.99	Gyeonggi-do	
AS9318 SK Broadband Co Ltd	Incheon	Republic of Korea	58.120.213.69	Incheon	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	58.120.150.43	Seoul	
AS9416 Hoshin Multimedia Center Inc.	Fenjiu	Taiwan	58.115.222.137	Taiwan	
AS7470 TRUE INTERNET Co.,Ltd.	Bangkok (Khwaeng Din Daeng)	Thailand	58.11.133.80	Bangkok	
AS14618 Amazon.com, Inc.	Ashburn	United States	54.86.177.242	Virginia	20149
AS16276 OVH SAS	Clichy-sous-Bois	France	54.37.19.212	Île-de-France	
AS16509 Amazon.com, Inc.	Ashburn	United States	54.231.50.68	Virginia	20149
AS16509 Amazon.com, Inc.	Seattle	United States	54.192.185.20	Washington	98101
AS14618 Amazon.com, Inc.	Ashburn	United States	54.173.207.222	Virginia	20149
AS16509 Amazon.com, Inc.	Seattle	United States	52.84.182.46	Washington	98109
AS14618 Amazon.com, Inc.	Ashburn	United States	52.72.224.137	Virginia	20149
AS16509 Amazon.com, Inc.	Seattle	United States	52.46.53.157	Washington	98109
AS16509 Amazon.com, Inc.	Boardman	United States	52.39.16.123	Oregon	97818
AS16509 Amazon.com, Inc.	Boardman	United States	52.38.154.130	Oregon	97818
AS14618 Amazon.com, Inc.	Ashburn	United States	52.3.46.169	Virginia	20149
AS16509 Amazon.com, Inc.	Boardman	United States	52.27.228.99	Oregon	97818
AS16509 Amazon.com, Inc.	Dublin	Ireland	52.211.200.120	Leinster	D02
AS18616 Natural Wireless, LLC	New York	United States	52.119.65.11	New York	10019
AS16276 OVH SAS	Arnac-Pompadour	France	51.255.213.217	Limousin	
AS16276 OVH SAS	Roubaix	France	51.254.81.88	Nord-Pas-de-Calais	
AS16276 OVH SAS	Roubaix	France	51.254.137.175	Nord-Pas-de-Calais	
AS25019 Saudi Telecom Company JSC	Dhahran	Saudi Arabia	51.223.28.23	Eastern Province	
AS7029 Windstream Communications LLC	Dalton	United States	50.96.167.24	Georgia	30720
AS33363 BRIGHT HOUSE NETWORKS, LLC	Kissimmee	United States	50.88.105.170	Florida	34746
AS30036 Mediacom Communications Corp	Granite Falls	United States	50.83.252.55	Minnesota	56241

AS30036 Mediacom Communications Corp	Elburn	United States	50.83.222.58	Illinois	60119
AS30036 Mediacom Communications Corp	Des Moines	United States	50.80.250.117	Iowa	50313
AS7922 Comcast Cable Communications, LLC	Pittsburgh	United States	50.73.173.126	Pennsylvania	15282
AS5650 Frontier Communications of America, Inc.	Rochester	United States	50.49.112.36	New York	14620
AS5650 Frontier Communications of America, Inc.	Carbondale	United States	50.45.11.144	Illinois	62901
AS5650 Frontier Communications of America, Inc.	Newberg	United States	50.39.253.25	Oregon	97132
AS5650 Frontier Communications of America, Inc.	Bandon	United States	50.38.85.104	Oregon	97411
AS5650 Frontier Communications of America, Inc.	Bullhead City	United States	50.38.191.6	Arizona	86442
AS5650 Frontier Communications of America, Inc.	Marysville	United States	50.34.98.183	Washington	98271
AS5650 Frontier Communications of America, Inc.	Arlington	United States	50.34.182.154	Washington	98223
AS5650 Frontier Communications of America, Inc.	New Holland	United States	50.32.200.104	Pennsylvania	17557
AS7922 Comcast Cable Communications, LLC	Lake Forest	United States	50.254.29.242	Illinois	60045
AS7922 Comcast Cable Communications, LLC	Richmond	United States	50.225.137.1	Virginia	23226
AS7922 Comcast Cable Communications, LLC	Cincinnati	United States	50.207.92.131	Ohio	45219
AS7922 Comcast Cable Communications, LLC	Lanham	United States	50.206.123.150	Maryland	
AS7922 Comcast Cable Communications, LLC	Shreveport	United States	50.194.36.162	Louisiana	71105
AS5650 Frontier Communications of America, Inc.	Hayden	United States	50.120.70.180	Idaho	83835
AS32392 The Endurance International Group, Inc.	Burlington	United States	50.118.20.233	Massachusetts	01803
AS18779 EGIHosting	San Jose	United States	50.118.152.76	California	95113
AS5650 Frontier Communications of America, Inc.	Fairmont	United States	50.110.90.241	West Virginia	26554

AS5650 Frontier Communications of America, Inc.	Athens	United States	50.110.107.77	West Virginia	24712
AS5650 Frontier Communications of America, Inc.	Moab	United States	50.109.205.234	Utah	84532
AS5650 Frontier Communications of America, Inc.	Dresden	United States	50.109.19.63	Tennessee	38225
AS5650 Frontier Communications of America, Inc.	Herrin	United States	50.109.143.226	Illinois	62948
AS5650 Frontier Communications of America, Inc.	Lawton	United States	50.107.65.187	Michigan	49065
AS5650 Frontier Communications of America, Inc.	Capac	United States	50.105.96.86	Michigan	48014
AS3269 Telecom Italia	Milan	Italy	5.96.255.105	Lombardy	20128
AS29119 ServiHosting Networks S.L.	Morón de la Frontera	Spain	5.83.53.162	Andalusia	41530
AS3181 CJSC Matrix Mobile	Moscow	Russia	5.8.161.49	Moscow	102128
AS30848 TWT S.p.A.	Milan	Italy	5.8.119.189	Lombardy	
AS12880 Information Technology Company (ITC)	Tehran	Iran	5.74.82.128	Ostan-e Tehran	
AS12880 Information Technology Company (ITC)	Tehran	Iran	5.74.65.162	Ostan-e Tehran	
AS5607 Sky UK Limited	Prescot	United Kingdom	5.71.95.209	England	L34
AS5607 Sky UK Limited	Dunfermline	United Kingdom	5.70.117.180	Scotland	KY12
AS5607 Sky UK Limited	Bathgate	United Kingdom	5.69.244.216	Scotland	EH48
AS5607 Sky UK Limited	Newcastle upon Tyne	United Kingdom	5.68.232.181	England	NE2
AS5607 Sky UK Limited	Dagenham	United Kingdom	5.67.247.105	England	RM10
AS5607 Sky UK Limited	Nottingham	United Kingdom	5.67.205.112	England	NG7
AS5607 Sky UK Limited	Newton Abbot	United Kingdom	5.66.87.136	England	TQ12
AS199610 marbis GmbH	Karlsruhe (Grünwinkel)	Germany	5.62.121.119	Baden-Württemberg	
AS47626 Timer Ltd.	Aksay	Russia	5.59.141.245	Rostov	346720
AS49332 SE Ltd Impulse TRK Impuls-TB	Dnipro	Ukraine	5.57.67.23	Dnipro	49020
AS29119 ServiHosting Networks S.L.	Madrid	Spain	5.57.224.158	Madrid	28037

AS49902 Societe Reunionnaise Du Radiotelephone Scs	Saint-Denis	Réunion	5.57.117.68	Réunion	
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Athens	Greece	5.55.27.99	Attica	
AS28885 Oman Telecommunications Company (S.A.O.G)	Muscat	Oman	5.36.122.146	Muscat	
AS21299 2DAY Telecom LLP	Almaty	Kazakhstan	5.34.85.204	Almaty Qalasy	
AS9198 JSC Kazakhtelecom	Taraz	Kazakhstan	5.251.194.18	Zhambyl Oblysy	
AS12353 Vodafone Portugal - Comunicacoes Pessoais S.A.	Lisbon	Portugal	5.249.5.243	Lisbon	1200-181
AS12880 Information Technology Company (ITC)	Tehran	Iran	5.238.214.3	Ostan-e Tehran	
AS58224 Iran Telecommunication Company PJS	Hamadan	Iran	5.236.186.133	Ostan-e Hamadan	
AS42610 PJSC Rostelecom	Moscow	Russia	5.228.67.34	Moscow	117437
AS42610 PJSC Rostelecom	Moscow	Russia	5.228.235.130	Moscow	102128
AS42610 PJSC Rostelecom	Moscow	Russia	5.228.14.6	Moscow	109652
AS12741 Netia SA	Dobczyce	Poland	5.226.94.67	Lesser Poland Voivodeship	32-410
AS21412 UAB Cgates	Vilnius	Republic of Lithuania	5.20.146.34	Vilnius	01001
AS12390 Kcom	Hull	United Kingdom	5.198.93.16	England	HU15
AS57293 AG Telecom LTD.	Baku	Azerbaijan	5.197.232.83	Baku City	
AS200081 Netversor GmbH	London	United Kingdom	5.189.233.15	England	
AS44283 SE Dvoynin Andrey Viktorovich	St Petersburg	Russia	5.188.157.45	St.-Petersburg	190817
AS16010 Magticom Ltd.	Tbilisi	Georgia	5.178.170.115	K'alak'i T'bilisi	
AS42010 ITPS Ltd	Stirling	United Kingdom	5.175.56.115	Scotland	FK9
AS12768 JSC ER-Telecom Holding	Perm	Russia	5.166.183.192	Perm Krai	614067
AS57858 Inter Connects Inc	Paris	France	5.157.51.220	Île-de-France	75001
AS12703 Pulsant (Scotland) Ltd	Brighton	United Kingdom	5.153.78.5	England	BN3
AS35805 JSC Silknet	Batumi	Georgia	5.152.30.156	Ajaria	
AS12389 PJSC Rostelecom	Tomsk	Russia	5.136.74.171	Tomskaya Oblast'	634050
AS12389 PJSC Rostelecom	Ulan-Ude	Russia	5.136.245.181	Respublika Buryatiya	670000
AS16276 OVH SAS	Pornic	France	5.135.182.108	Pays de la Loire	44210

AS42038 Vladivostokskaya Set LTD	Vladivostok	Russia	5.100.124.54	Primorskiy Kray	690037
AS4134 No.31,Jin-rong Street	Suzhou	China	49.84.216.53	Jiangsu	
AS4134 No.31,Jin-rong Street	Nantong	China	49.79.68.31	Jiangsu	
AS4134 No.31,Jin-rong Street	Wuxi	China	49.76.69.159	Jiangsu	
AS4134 No.31,Jin-rong Street	Jiangyin	China	49.76.191.158	Jiangsu	
AS4134 No.31,Jin-rong Street	Shanghai	China	49.73.169.44	Shanghai	
AS4134 No.31,Jin-rong Street	Nantong	China	49.67.127.109	Jiangsu	
AS55470 Cyfuture India Pvt. Ltd.	Noida	India	49.50.111.52	Uttar Pradesh	201301
AS45758 Triple T Internet/Triple T Broadband	Khon Kaen	Thailand	49.48.143.224	Changwat Khon Kaen	40000
AS4766 Korea Telecom	Seoul	Republic of Korea	49.254.220.3	Seoul	
AS10013 FreeBit Co.,Ltd.	Tokyo	Japan	49.243.181.206	Tokyo	190-0031
AS7470 TRUE INTERNET Co.,Ltd.	Huai Khwang	Thailand	49.237.35.96	Bangkok	10320
AS4804 Microplex PTY LTD	Glen Waverley	Australia	49.194.40.222	Victoria	3150
AS4134 No.31,Jin-rong Street	Shuyicun	China	49.118.77.179	Shanxi	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	47.98.33.198	Zhejiang	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	47.92.10.176	Zhejiang	
AS45102 Alibaba (China) Technology Co., Ltd.	Hong Kong	Hong Kong	47.52.188.185	Central and Western	
AS20115 Charter Communications	Eldon	United States	47.40.36.100	Missouri	65026
AS20115 Charter Communications	North Bend	United States	47.36.153.231	Oregon	97459
AS19108 Suddenlink Communications	Sulphur Springs	United States	47.220.243.52	Texas	75482
AS19108 Suddenlink Communications	Mammoth Lakes	United States	47.209.20.212	California	93546
AS19108 Suddenlink Communications	Truckee	United States	47.208.173.159	California	96161
AS5650 Frontier Communications of America, Inc.	Port Richey	United States	47.203.91.153	Florida	34668
AS5650 Frontier Communications of America, Inc.	Seminole	United States	47.203.138.96	Florida	33776

AS5650 Frontier Communications of America, Inc.	Lakeland	United States	47.195.17.102	Florida	33811
AS5650 Frontier Communications of America, Inc.	Sarasota	United States	47.192.163.171	Florida	34236
AS5650 Frontier Communications of America, Inc.	Irving	United States	47.189.104.39	Texas	75061
AS5650 Frontier Communications of America, Inc.	Lewisville	United States	47.187.94.7	Texas	75077
AS5650 Frontier Communications of America, Inc.	Plano	United States	47.185.239.95	Texas	75074
AS5650 Frontier Communications of America, Inc.	Carrollton	United States	47.184.49.126	Texas	75007
AS5650 Frontier Communications of America, Inc.	San Angelo	United States	47.183.187.112	Texas	76904
AS5650 Frontier Communications of America, Inc.	Brownwood	United States	47.183.177.222	Texas	76801
AS5650 Frontier Communications of America, Inc.	Llano	United States	47.183.166.150	Texas	78643
AS5650 Frontier Communications of America, Inc.	Walnut	United States	47.156.140.144	California	91789
AS5650 Frontier Communications of America, Inc.	Whittier	United States	47.156.114.235	California	90605
AS5650 Frontier Communications of America, Inc.	Santa Monica	United States	47.151.145.233	California	90405
AS5650 Frontier Communications of America, Inc.	Torrance	United States	47.149.129.182	California	90503
AS5650 Frontier Communications of America, Inc.	Norwalk	United States	47.148.80.182	California	90650
AS5650 Frontier Communications of America, Inc.	Cerritos	United States	47.148.121.54	California	90703
AS5650 Frontier Communications of America, Inc.	Cerritos	United States	47.148.113.232	California	90703
AS5650 Frontier Communications of America, Inc.	Santa Barbara	United States	47.142.148.150	California	93101

AS5650 Frontier Communications of America, Inc.	Santa Monica	United States	47.137.28.215	California	90403
AS5650 Frontier Communications of America, Inc.	La Puente	United States	47.136.86.43	California	91744
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	47.104.29.157	Zhejiang	
AS56669 Noyabrskneftegazsvyaz Ltd	Noyabrsk	Russia	46.8.76.3	Yamalo-Nenets	629805
AS5607 Sky UK Limited	London	United Kingdom	46.64.2.10	England	
AS12389 PJSC Rostelecom	Rostov-on-Don	Russia	46.61.29.237	Rostov	344001
AS8473 Bahnhof Internet AB	Helsingborg	Sweden	46.59.78.47	Skåne	250 02
AS21056 Welcome Italia S.p.A	Massarosa	Italy	46.44.210.16	Tuscany	
AS24940 Hetzner Online GmbH	Falkenstein	Germany	46.4.56.208	Saxony	
AS50583 Index Education SAS	Marseille	France	46.33.167.77	Provence-Alpes-Côte d'Azur	
AS29562 Kabel BW	Ludwigsburg	Germany	46.223.93.222	Baden-Württemberg Region	71636
AS12670 Complete1	Azy-sur-Marne	France	46.218.103.17	Picardie	
AS8386 Vodafone Net İletişim Hizmetleri Anonim Şirketi	Pendik	Turkey	46.2.136.181	Istanbul	
AS12353 Vodafone Portugal - Comunicacoes Pessoais S.A.	Lisbon	Portugal	46.189.234.96	Lisbon	1200-181
AS43118 East & West Sp. z o.o.	Bydgoszcz	Poland	46.187.139.215	Kujawsko-Pomorskie	85-791
AS15895 Kyivstar PJSC	Odesa	Ukraine	46.185.85.148	Odessa	68004
AS39927 E-Light-Telecom	Kemerovo	Russia	46.180.20.5	Kemerovskaya Oblast'	650032
AS39927 E-Light-Telecom	Prokop'yevsk	Russia	46.180.165.222	Kemerovskaya Oblast'	653052
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Athens (Ampelokipoi)	Greece	46.176.155.114	Attica	
AS28753 Leaseweb Deutschland GmbH	Frankfurt am Main	Germany	46.165.253.101	Hesse	
AS6712 TVP Format Llc	Donetsk	Ukraine	46.160.110.120	Donets'ka Oblast'	
AS12389 PJSC Rostelecom	Novorossiysk	Russia	46.159.210.254	Krasnodarskiy Kray	353900
AS12389 PJSC Rostelecom	Krasnodar	Russia	46.158.58.6	Krasnodarskiy Kray	350000
AS25229 Volia	Melitopol	Ukraine	46.150.71.130	Zaporizhia	72302
AS12768 JSC ER-Telecom Holding	Perm	Russia	46.147.41.173	Perm Krai	614065
AS1136 KPN B.V.	Voorburg	Netherlands	46.145.82.193	South Holland	2274

AS6830 Liberty Global Operations B.V.	Pfungen	Switzerland	46.140.192.110	Zurich	8422
AS6830 Liberty Global Operations B.V.	Oftingen	Switzerland	46.127.110.174	Aargau	4665
AS21283 A1 Slovenija telekomunikacijske storitve,d.d.	Ljubljana	Slovenia	46.122.20.142	Ljubljana	
AS8866 Vivacom	Pernik	Bulgaria	46.10.132.37	Pernik	2300
AS20473 Choopa, LLC	Miami	United States	45.77.93.244	Florida	33142
AS267583 MegaLink Telecom e Segurança Eletronica	Severinia	Brazil	45.70.142.67	Sao Paulo	14735
AS266254 Rafael DA Silva Paraguai	São Bernardo do Campo	Brazil	45.6.235.231	Sao Paulo	
AS11351 Time Warner Cable Internet LLC	Gorham	United States	45.46.79.210	Maine	04038
AS11351 Time Warner Cable Internet LLC	Mapleton	United States	45.46.67.229	Maine	04757
AS26496 GoDaddy.com, LLC	Scottsdale	United States	45.40.152.77	Arizona	85260
AS266087 Orbitel Telecomunicações e Informática Ltda	Brasília	Brazil	45.4.194.134	Federal District	
AS63949 Linode, LLC	Newark	United States	45.33.89.70	New Jersey	07175
AS63949 Linode, LLC	Fremont	United States	45.33.39.197	California	94536
AS21769 Colocation America Corporation	Powell	United States	45.33.166.30	Wyoming	82435
AS20473 Choopa, LLC	Seattle	United States	45.32.228.29	Washington	98121
AS9441 Next Online Limited.	Dhaka	Bangladesh	45.250.228.70	Dhaka Division	
AS37353 MacroLAN	Johannesburg	South Africa	45.205.58.184	Gauteng	2000
AS37353 MacroLAN	Johannesburg	South Africa	45.204.29.232	Gauteng	2000
AS37353 MacroLAN	Johannesburg	South Africa	45.204.204.251	Gauteng	2000
AS37353 MacroLAN	Johannesburg	South Africa	45.203.106.62	Gauteng	2000
AS134548 DXTL Tseung Kwan O Service	Hong Kong	Hong Kong	45.193.155.97	Central and Western	
AS26658 HT	Mongkok	Hong Kong	45.127.162.113	Yau Tsim Mong	
AS58912 Progressive Tower (1st Floor)	Chittagong	Bangladesh	45.124.15.217	Chittagong	4000
AS9829 National Internet Backbone	Srinagar	India	45.122.141.228	Jammu and Kashmir	190001
AS135600 Whiz Communications Pte Ltd	Singapore	Singapore	45.114.6.145	Central Singapore Community Development Council	
AS1653 SUNET SUNET Swedish University Network	San Diego (Clairemont)	United States	44.140.151.19	California	

AS1653 SUNET SUNET Swedish University Network	San Diego (Clairemont)	United States	44.140.13.147	California	
AS3265 Xs4all Internet BV	Amsterdam	Netherlands	44.137.231.180	North Holland	1083
AS3265 Xs4all Internet BV	Amsterdam	Netherlands	44.137.205.5	North Holland	1083
AS394144 LTY CONNECT	San Diego	United States	44.127.28.79	California	92111
AS133043 Enhanced Solutions Ltd	Takapau	New Zealand	43.245.173.51	Hawke's Bay	4243
AS132742 Guochao Group limited	Mongkok	Hong Kong	43.243.240.154	Yau Tsim Mong	
AS133739 CoreDV Pty Ltd ts	Saint Georges Basin	Australia	43.243.237.78	New South Wales	2540
AS9829 National Internet Backbone	Visakhapatnam	India	43.239.240.24	Andhra Pradesh	530017
AS4837 CHINA UNICOM China169 Backbone	Dalian	China	42.84.83.120	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	42.7.76.110	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	42.7.138.9	Liaoning	
AS9506 Singtel Fibre Broadband	Singapore	Singapore	42.60.170.26	Central Singapore Community Development Council	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	42.6.184.83	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Dandong	China	42.58.57.129	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Dashiqiao	China	42.55.55.26	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Anshan	China	42.55.255.9	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Fuxin	China	42.53.36.132	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	42.5.229.31	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Anshan	China	42.5.166.18	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	42.4.208.168	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	42.228.210.7	Henan Sheng	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	42.226.132.126	Henan	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	42.224.145.79	Henan	
AS4788 TM Net, Internet Service Provider	Seremban	Malaysia	42.188.96.70	Negeri Sembilan	70450
AS4837 CHINA UNICOM China169 Backbone	Lingcheng	China	42.177.119.176	Shandong	

AS18403 The Corporation for Financing & Promoting Technology	Hanoi	Vietnam	42.118.193.242	Thanh Pho Ha Noi	
AS4134 No.31,Jin-rong Street	Harbin	China	42.101.101.131	Heilongjiang	
AS37282 MAINONE	Lagos	Nigeria	41.75.89.101	Lagos	
AS37053 RSAWEB Internet Services	Cape Town (Claremont)	South Africa	41.71.38.228	Western Cape	
AS24835 RAYA Telecom - Egypt	Cairo	Egypt	41.69.166.111	Cairo Governorate	
AS22750 BCSNET	Centurion	South Africa	41.57.160.121	Gauteng	0157
AS29975 VODACOM-	Randburg	South Africa	41.27.254.236	Gauteng	
AS36903 MT-MPLS	Oujda	Morocco	41.248.35.17	Oriental	
AS2609 Tunisia BackBone AS	Tunis	Tunisia	41.230.190.160	Gouvernorat de Tunis	
AS36941 MTDS-AS	Rabat	Morocco	41.216.227.75	Region de Rabat-Sale-Zemmour-Zaer	
AS9129 KE-NET2000	Nairobi	Kenya	41.209.55.6	Nairobi Province	
AS29918 IMPOL-ASN	Germiston	South Africa	41.203.175.230	Gauteng	1401
AS36943 webafrica	Cape Town (Zonnebloem)	South Africa	41.185.12.85	Western Cape	
AS12091 MTNNS-1	Randburg	South Africa	41.115.215.114	Gauteng	
AS7349 TierPoint, LLC	Raleigh	United States	40.143.163.154	North Carolina	27605
AS7029 Windstream Communications LLC	Norwalk	United States	40.138.122.10	Connecticut	06850
AS7029 Windstream Communications LLC	Lexington	United States	40.136.3.25	Kentucky	40511
AS7029 Windstream Communications LLC	Stafford	United States	40.134.144.34	Texas	77477
AS7029 Windstream Communications LLC	Effingham	United States	40.128.5.124	Illinois	62401
AS3356 Level 3 Communications, Inc.	Louisville	United States	4.53.67.98	Kentucky	40241
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	39.90.177.103	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	39.89.86.167	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	39.89.192.162	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	39.88.168.7	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Pingdu	China	39.87.228.197	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Heze	China	39.81.90.177	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Dongying	China	39.79.150.134	Shandong	

AS4837 CHINA UNICOM China169 Backbone	Jinan	China	39.78.186.203	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Rizhao	China	39.72.79.164	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Rizhao	China	39.72.28.118	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Zoucheng	China	39.68.155.43	Shandong	
AS9808 Guangdong Mobile Communication Co.Ltd.	Xinyu	China	39.179.166.187	Jiangxi	
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing (Xicheng Qu)	China	39.167.27.26	Beijing	
AS9318 SK Broadband Co Ltd	Incheon	Republic of Korea	39.120.160.74	Incheon	
AS9318 SK Broadband Co Ltd	Gangneung	Republic of Korea	39.118.20.111	Gangwon-do	
AS9318 SK Broadband Co Ltd	Gumi	Republic of Korea	39.112.130.52	Gyeongsangbuk-do	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	39.107.70.226	Zhejiang	
AS174 Cogent Communications	Los Angeles	United States	38.91.114.168	California	90014
AS11550 Smithville Digital, LLC	Bloomington	United States	38.86.87.252	Indiana	47408
AS174 Cogent Communications	Dallas	United States	38.84.47.212	Texas	75244
AS174 Cogent Communications	Broken Arrow	United States	38.81.130.141	Oklahoma	74012
AS22898 ATLINK SERVICES, LLC	Yukon	United States	38.66.35.181	Oklahoma	73099
AS174 Cogent Communications	Washington D.C. (Northwest Washington)	United States	38.135.197.223	District of Columbia	
AS63242 Lightspeed Communications, LLC	Ravenna	United States	38.131.233.98	Michigan	49451
AS174 Cogent Communications	Montreal	Canada	38.121.92.71	Quebec	H3G
AS26932 BRAVO TELECOM	Montreal	Canada	38.121.247.213	Quebec	H1R
AS174 Cogent Communications	Washington D.C. (Northwest Washington)	United States	38.117.120.218	District of Columbia	
AS174 Cogent Communications	Dallas	United States	38.107.236.124	Texas	75270
AS15557 SFR SA	Courbevoie	France	37.70.50.121	Île-de-France	
AS50572 Zetup AB	Gothenburg (Lindholmen)	Sweden	37.49.241.233	Västra Götaland	
AS6697 Republican Unitary Telecommunication Enterprise Beltelecom	Brest	Belarus	37.45.13.236	Brest	224000
AS39232 Uninet	Baku	Azerbaijan	37.26.37.16	Baku City	

AS196689 Digicube sas	Vern-sur-Seiche	France	37.26.240.217	Brittany	
AS25019 Saudi Telecom Company JSC	Jeddah	Saudi Arabia	37.224.78.81	Makkah Province	
AS12430 Vodafone Spain	San Fernando de Henares	Spain	37.222.8.9	Madrid	28830
AS12430 Vodafone Spain	Madrid	Spain	37.222.248.47	Madrid	28030
AS6697 Republican Unitary Telecommunication Enterprise Beltelecom	Vitebsk	Belarus	37.212.163.111	Vitebsk	210000
AS42298 Ooredoo Q.S.C.	Doha	Qatar	37.210.66.141	Baladiyat ad Dawhah	
AS42298 Ooredoo Q.S.C.	Doha	Qatar	37.210.146.60	Baladiyat ad Dawhah	
AS3269 Telecom Italia	Udine	Italy	37.207.54.149	Friuli Venezia Giulia	33100
AS24971 Master Internet s.r.o.	Phoenix	United States	37.205.12.31	Arizona	
AS6830 Liberty Global Operations B.V.	Werne	Germany	37.201.218.128	North Rhine-Westphalia	59368
AS198354 SIS Laboratory, LLC	Moscow	Russia	37.19.4.93	Moscow	102128
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Vila Nova de Famalicao	Portugal	37.189.5.125	Braga	4760-015
AS198370 Joker Games d.o.o	Belgrade	Serbia	37.18.186.10	Belgrade	
AS51207 Free Mobile SAS	Champigny-sur-Marne	France	37.166.17.192	Île-de-France	94500
AS51207 Free Mobile SAS	Bezons	France	37.164.246.93	Île-de-France	95870
AS198569 Rahanet Zanzan Co. (Private Joint-Stock)	Zanzan	Iran	37.152.163.143	Zanzan	
AS9198 JSC Kazakhtelecom	Ridder	Kazakhstan	37.150.142.102	East Kazakhstan	
AS12715 Orange Espagne S.A.U.	el Prat de Llobregat	Spain	37.15.207.149	Catalonia	08820
AS29125 PVimpelCom	Kazan'	Russia	37.146.117.198	Tatarstan	420075
AS12715 Orange Espagne S.A.U.	Terrassa	Spain	37.14.131.176	Catalonia	08223
AS50153 Włodzimierz Gasior, Jolanta Gadek trading as Net-Bis s.c.	Miechów	Poland	37.139.78.208	Lesser Poland Voivodeship	
AS12715 Orange Espagne S.A.U.	Madrid	Spain	37.134.186.207	Madrid	28019
AS41754 JSC ER-Telecom Holding	Penza	Russia	37.113.43.129	Penzenskaya Oblast'	440000
AS57378 JSC ER-Telecom Holding	Rostov-on-Don	Russia	37.112.37.112	Rostov	344001
AS12715 Orange Espagne S.A.U.	Madrid	Spain	37.11.36.86	Madrid	28034
AS12715 Orange Espagne S.A.U.	Málaga	Spain	37.11.167.86	Andalusia	29010
AS17974 PT Telekomunikasi Indonesia	Rw 02	Indonesia	36.82.249.214	Jakarta	

AS17974 PT Telekomunikasi Indonesia	Bandung	Indonesia	36.80.2.251	West Java	
AS17974 PT Telekomunikasi Indonesia	Rw 02	Indonesia	36.76.199.151	Jakarta	
AS17974 PT Telekomunikasi Indonesia	Surabaya	Indonesia	36.74.202.232	East Java	
AS17974 PT Telekomunikasi Indonesia	Bandung	Indonesia	36.72.206.45	West Java	
AS17974 PT Telekomunikasi Indonesia	Rw 02	Indonesia	36.68.34.207	Jakarta	
AS4134 No.31,Jin-rong Street	Shanghai	China	36.45.198.74	Shanghai	
AS4134 No.31,Jin-rong Street	Xi'an	China	36.45.156.60	Shaanxi	
AS4134 No.31,Jin-rong Street	Xi'an	China	36.43.9.210	Shaanxi	
AS45365 CJ Hello Co., Ltd.	Jeongeup-si (Suseong 6-ro)	Republic of Korea	36.38.181.124	Jeollabuk-do	
AS4837 CHINA UNICOM China169 Backbone	Fuyang	China	36.35.223.249	Anhui	
AS4837 CHINA UNICOM China169 Backbone	Suzhou	China	36.34.96.42	Anhui	
AS135869 SAI NET SERVICES	Delhi	India	36.255.132.72	National Capital Territory of Delhi	110088
AS3462 Data Communication Business Group	Taoyuan District	Taiwan	36.231.177.37	Taoyuan	
AS3462 Data Communication Business Group	Taipei	Taiwan	36.229.214.1	Taipei City	
AS3462 Data Communication Business Group	Taoyuan District	Taiwan	36.227.148.202	Taoyuan	
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing (Xicheng Qu)	China	36.185.55.124	Beijing	
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing (Xicheng Qu)	China	36.185.238.98	Beijing	
AS23724 IDC, China Telecommunications Corporation	Beijing	China	36.110.161.165	Beijing	
AS4134 No.31,Jin-rong Street	Hangzhou	China	36.105.247.14	Zhejiang	
AS4134 No.31,Jin-rong Street	Yinchuan	China	36.103.91.181	Ningsia Hui Autonomous Region	
AS4134 No.31,Jin-rong Street	Haikou	China	36.1.177.254	Hainan	
AS237 Merit Network Inc.	Kalamazoo	United States	35.46.98.83	Michigan	49008
AS237 Merit Network Inc.	Allendale	United States	35.39.223.107	Michigan	49401
AS15169 Google LLC	Mountain View	United States	35.203.141.36	California	94043

AS15169 Google LLC	Mountain View	United States	35.198.153.19	California	94043
AS15169 Google LLC	Mountain View	United States	35.193.28.249	California	94043
AS15169 Google LLC	Mountain View	United States	35.187.92.252	California	94043
AS15169 Google LLC	Mountain View	United States	35.187.237.171	California	94043
AS15169 Google LLC	Mountain View	United States	35.187.130.19	California	94043
AS15169 Google LLC	Mountain View	United States	35.185.17.60	California	94043
AS16509 Amazon.com, Inc.	London	United Kingdom	35.176.27.122	England	EC2V
AS14618 Amazon.com, Inc.	Ashburn	United States	34.199.75.30	Virginia	20149
AS31549 Aria Shatel Company Ltd	Rasht	Iran	31.56.135.23	Ostan-e Gilan	
AS2856 British Telecommunications PLC	Bristol	United Kingdom	31.51.98.21	England	BS1
AS2119 Telenor Norge AS	Soreide	Norway	31.45.72.70	Hordaland Fylke	5251
AS20714 Merlin-Telekom LLC	Kiev	Ukraine	31.42.52.86	Kyiv City	02094
AS197019 WEDOS Internet, a.s.	Prague	Czechia	31.31.78.123	Hlavni mesto Praha	130 00
AS12389 PJSC Rostelecom	Taganrog	Russia	31.23.134.208	Rostov	347909
AS6677 Siminn	Reykjavik	Iceland	31.209.211.82	Capital Region	112
AS3269 Telecom Italia	Rome	Italy	31.199.24.251	Latium	00137
AS12389 PJSC Rostelecom	Tuapse	Russia	31.181.209.143	Krasnodarskiy Kray	352800
AS12389 PJSC Rostelecom	Krasnodar	Russia	31.181.110.135	Krasnodarskiy Kray	
AS6730 Sunrise Communications AG	Geneva	Switzerland	31.164.58.157	Geneva	1203
AS12389 PJSC Rostelecom	Perm	Russia	31.162.60.198	Perm Krai	614067
AS31334 Vodafone Kabel Deutschland GmbH	Lüneburg	Germany	31.16.177.170	Lower Saxony	21339
AS9145 EWE-Tel GmbH	Oldenburg	Germany	31.150.137.167	Lower Saxony	26135
AS31034 Aruba S.p.A.	Arezzo	Italy	31.14.138.128	Tuscany	52100
AS31034 Aruba S.p.A.	Arezzo	Italy	31.14.133.214	Tuscany	52100
AS42239 Ltd. Cypher	Simferopol	Ukraine	31.135.108.128	Republic of Crimea	
AS56823 FOP Mulyavka Vyacheslav Aleksandrovich	Kropyvnytskyi	Ukraine	31.134.212.147	Kropyvnytskyi	25009
AS51069 Dnepronet Ltd.	Kamianske	Ukraine	31.129.79.231	Dnipro	51916
AS4837 CHINA UNICOM China169 Backbone	Chongqing	China	27.9.255.86	Chongqing	
AS7552 Viettel Group	Buon Ma Thuot	Vietnam	27.79.56.24	Tinh GJlak Lak	
AS7552 Viettel Group	Hanoi	Vietnam	27.76.99.179	Thanh Pho Ha Noi	
AS7552 Viettel Group	Vinh	Vietnam	27.76.174.95	Tinh Nghe An	
AS7552 Viettel Group	Ho Chi Minh City	Vietnam	27.74.246.75	Ho Chi Minh City	
AS17488 Hathway IP Over Cable Internet	Chennai	India	27.5.244.223	Tamil Nadu	

AS17816 China Unicom IP network China169 Guangdong province	Dongguan	China	27.44.180.73	Guangdong	
AS17816 China Unicom IP network China169 Guangdong province	Foshan	China	27.36.48.115	Guangdong	
AS45543 SaiGon Tourist cable Television Company	Ho Chi Minh City	Vietnam	27.3.38.88	Ho Chi Minh City	
AS17917 Quadrant Televentures Limited	Mohali	India	27.255.189.87	Punjab	
AS4134 No.31,Jin-rong Street	Wuhan	China	27.24.86.245	Hubei	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	27.235.176.203	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	27.234.250.76	Gyeonggi-do	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	27.223.168.106	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	27.223.16.18	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	27.222.39.160	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Dezhou	China	27.222.244.139	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	27.220.59.133	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Yantai	China	27.217.92.118	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	27.216.113.248	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Tengzhou	China	27.215.150.134	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Weifang	China	27.214.64.169	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Zibo	China	27.212.96.132	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Zibo	China	27.212.47.220	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Zibo	China	27.212.247.110	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Zibo	China	27.212.106.82	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Weihai	China	27.203.140.187	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Dongying	China	27.202.238.43	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	27.196.38.156	Shandong	

AS4837 CHINA UNICOM China169 Backbone	Jinan	China	27.196.109.48	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Zibo	China	27.195.208.31	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	27.193.188.96	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Weifang	China	27.192.217.182	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Weifang	China	27.192.204.240	Shandong	
AS4134 No.31,Jin-rong Street	Handan	China	27.188.31.188	Hebei	
AS17552 True Internet Co.,Ltd.	Bangkok (Khwaeng Din Daeng)	Thailand	27.145.11.79	Bangkok	
AS4837 CHINA UNICOM China169 Backbone	Chongqing	China	27.14.218.24	Chongqing	
AS9824 Jupiter Telecommunication Co. Ltd	Konosu	Japan	27.139.229.216	Saitama	365-0028
AS45758 Triple T Internet/Triple T Broadband	Bangkok	Thailand	27.130.94.174	Bangkok	10240
AS38133 CMB	Gongju-si (Bonghwang-ro)	Republic of Korea	27.126.31.219	Chungcheongnam-do	
AS38527 JAWA POS NATIONAL NETWORK MEDIALINK, PT	Jakarta	Indonesia	27.124.84.242	Jakarta	
AS38719 Dreamscape Networks Limited	Perth	Australia	27.123.31.6	Western Australia	
AS23563 Tbroad Suwon Broadcasting Corporation	Seoul	Republic of Korea	27.119.54.205	Seoul	
AS10021 KVH Co.,Ltd	Tokyo	Japan	27.110.35.51	Tokyo	190-0031
AS7922 Comcast Cable Communications, LLC	Riverdale	United States	24.98.31.73	Georgia	30296
AS11351 Time Warner Cable Internet LLC	Geneva	United States	24.93.5.111	New York	14456
AS12271 Time Warner Cable Internet LLC	Richmond Hill	United States	24.90.133.36	New York	11419
AS33363 BRIGHT HOUSE NETWORKS, LLC	Palmetto	United States	24.73.5.117	Florida	34221
AS33363 BRIGHT HOUSE NETWORKS, LLC	Palmetto	United States	24.73.30.144	Florida	34221
AS31939 GigaMonster	Houston	United States	24.72.232.125	Texas	77002
AS7922 Comcast Cable Communications, LLC	Alameda	United States	24.7.1.213	California	94501
AS20001 Time Warner Cable Internet LLC	Los Angeles	United States	24.43.139.106	California	90036
AS11427 Time Warner Cable Internet LLC	Smithville	United States	24.31.240.123	Missouri	64089
AS11427 Time Warner Cable Internet LLC	New Braunfels	United States	24.243.23.116	Texas	78132

AS7922 Comcast Cable Communications, LLC	Pittsburgh	United States	24.23.113.157	Pennsylvania	15212
AS11426 Time Warner Cable Internet LLC	Rocky Point	United States	24.225.58.12	North Carolina	28457
AS11260 EastLink	Berwick	Canada	24.224.157.167	Nova Scotia	B0P
AS11232 Midcontinent Communications	Grand Forks	United States	24.220.100.230	North Dakota	58203
AS7922 Comcast Cable Communications, LLC	Woodland	United States	24.22.103.19	Washington	98674
AS20115 Charter Communications	O'Fallon	United States	24.217.169.253	Missouri	63366
AS12083 WideOpenWest Finance LLC	Montgomery	United States	24.214.201.254	Alabama	36107
AS10796 Time Warner Cable Internet LLC	Columbus	United States	24.208.192.127	Ohio	43228
AS7922 Comcast Cable Communications, LLC	Corvallis	United States	24.20.19.138	Oregon	97330
AS7922 Comcast Cable Communications, LLC	Coraopolis	United States	24.2.118.200	Pennsylvania	15108
AS20115 Charter Communications	Decatur	United States	24.197.89.185	Alabama	35601
AS7922 Comcast Cable Communications, LLC	Bellevue	United States	24.19.171.141	Washington	98008
AS6128 Cablevision Systems Corp.	New Canaan	United States	24.187.227.146	Connecticut	06840
AS7922 Comcast Cable Communications, LLC	Woodinville	United States	24.18.126.76	Washington	98072
AS7922 Comcast Cable Communications, LLC	Bellevue	United States	24.17.58.11	Washington	98008
AS11427 Time Warner Cable Internet LLC	McAllen	United States	24.167.66.206	Texas	78501
AS11427 Time Warner Cable Internet LLC	McAllen	United States	24.167.34.82	Texas	78501
AS11427 Time Warner Cable Internet LLC	Edinburg	United States	24.167.33.51	Texas	78542
AS33363 BRIGHT HOUSE NETWORKS, LLC	Lakeland	United States	24.164.33.122	Florida	33815
AS11426 Time Warner Cable Internet LLC	Ahoskie	United States	24.162.252.234	North Carolina	27910
AS20115 Charter Communications	Johnson City	United States	24.159.83.201	Tennessee	37604
AS7922 Comcast Cable Communications, LLC	Highland Park	United States	24.15.71.28	Illinois	60035
AS7922 Comcast Cable Communications, LLC	New Lenox	United States	24.14.231.222	Illinois	60451
AS36423 San Juan Cable, LLC	Bayamón	Puerto Rico	24.139.250.118		00957
AS36423 San Juan Cable, LLC	Carolina	Puerto Rico	24.137.249.156		00985

AS7922 Comcast Cable Communications, LLC	San Francisco	United States	24.130.139.136	California	94123
AS7922 Comcast Cable Communications, LLC	Fremont	United States	24.130.116.147	California	94536
AS7922 Comcast Cable Communications, LLC	Chicago	United States	24.13.138.101	Illinois	60631
AS7922 Comcast Cable Communications, LLC	Grandville	United States	24.128.156.247	Michigan	49418
AS7922 Comcast Cable Communications, LLC	New Baltimore	United States	24.127.4.180	Michigan	48047
AS7922 Comcast Cable Communications, LLC	Pontiac	United States	24.127.252.236	Michigan	48341
AS7922 Comcast Cable Communications, LLC	Douglasville	United States	24.125.213.244	Georgia	30135
AS7922 Comcast Cable Communications, LLC	Wilmette	United States	24.12.189.244	Illinois	60091
AS7922 Comcast Cable Communications, LLC	Logan	United States	24.11.14.172	Utah	84321
AS12271 Time Warner Cable Internet LLC	New York	United States	24.103.113.142	New York	10001
AS7922 Comcast Cable Communications, LLC	Naperville	United States	24.1.205.75	Illinois	60565
AS36352 ColoCrossing	Buffalo	United States	23.95.252.134	New York	14202
AS36352 ColoCrossing	Los Angeles	United States	23.94.208.65	California	90014
AS36352 ColoCrossing	Buffalo	United States	23.94.14.53	New York	14202
AS7065 Sonoma Interconnect	Santa Rosa	United States	23.93.13.94	California	95407
AS40676 Psychz Networks	Los Angeles	United States	23.91.0.142	California	90012
AS18978 Enzu Inc	Los Angeles	United States	23.89.77.234	California	90017
AS18978 Enzu Inc	Los Angeles	United States	23.89.166.186	California	90017
AS18978 Enzu Inc	Los Angeles	United States	23.88.22.187	California	90017
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.79.49.121	Massachusetts	02142
AS1299 Telia Company AB	Amsterdam	Netherlands	23.78.66.91	North Holland	1091
AS14178 Megacable Comunicaciones de Mexico, S.A. de C.V.	Cambridge	United States	23.75.221.17	Massachusetts	02142
AS20940 Akamai International B.V.	Cambridge	United States	23.74.72.185	Massachusetts	02142
AS852 TELUS Communications Inc.	Cambridge	United States	23.73.40.158	Massachusetts	02142
AS19429 Colombia	Cambridge	United States	23.61.3.137	Massachusetts	02142
AS2914 NTT America, Inc.	Cambridge	United States	23.61.13.207	Massachusetts	02142
AS3257 GTT Communications Inc.	Cambridge	United States	23.6.149.96	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.52.247.180	Massachusetts	02142

AS1299 Telia Company AB	Beverly Hills	United States	23.52.18.163	California	90210
AS20940 Akamai International B.V.	Cambridge	United States	23.51.212.225	Massachusetts	02142
AS3257 GTT Communications Inc.	Cambridge	United States	23.50.69.94	Massachusetts	02142
AS3257 GTT Communications Inc.	Cambridge	United States	23.50.65.174	Massachusetts	02142
AS2914 NTT America, Inc.	Cambridge	United States	23.5.247.221	Massachusetts	02142
AS6762 TELECOM ITALIA SPARKLE S.p.A.	Cambridge	United States	23.5.114.123	Massachusetts	02142
AS8529 Oman Telecommunications Company (S.A.O.G)	Cambridge	United States	23.46.93.45	Massachusetts	02142
AS3257 GTT Communications Inc.	Cambridge	United States	23.44.18.14	Massachusetts	02142
AS20940 Akamai International B.V.	Cambridge	United States	23.42.219.38	Massachusetts	02142
AS2914 NTT America, Inc.	Cambridge	United States	23.41.241.217	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	23.4.214.43	North Holland	1091
AS9299 Philippine Long Distance Telephone Company	Cambridge	United States	23.37.15.209	Massachusetts	02142
AS20940 Akamai International B.V.	Cambridge	United States	23.34.72.226	Massachusetts	02142
AS26769 Bandcon	Cambridge	United States	23.34.18.29	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge (Mit)	United States	23.33.168.66	Massachusetts	
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.32.168.160	Massachusetts	02142
AS18779 EGIHosting	San Jose	United States	23.27.239.35	California	95113
AS55286 B2 Net Solutions Inc.	Buffalo	United States	23.250.109.17	New York	14202
AS18978 Enzu Inc	Fort Worth	United States	23.244.36.167	Texas	76102
AS14828 Hiawatha Broadband Communications, Inc	Lewiston	United States	23.235.2.197	Minnesota	55952
AS55286 B2 Net Solutions Inc.	Stoney Creek	Canada	23.229.28.221	Ontario	L8E
AS26496 GoDaddy.com, LLC	Scottsdale	United States	23.229.199.103	Arizona	85260
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.217.35.237	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.215.145.182	Massachusetts	02142
AS20940 Akamai International B.V.	Amsterdam	Netherlands	23.214.53.91	North Holland	1091
AS2914 NTT America, Inc.	Cambridge	United States	23.214.229.59	Massachusetts	02142

AS55836 Reliance Jio Infocomm Limited	Cambridge	United States	23.213.65.240	Massachusetts	02142
AS3257 GTT Communications Inc.	Cambridge	United States	23.212.147.199	Massachusetts	02142
AS35994 Akamai Technologies, Inc.	Cambridge	United States	23.212.12.21	Massachusetts	02142
AS20940 Akamai International B.V.	Amsterdam	Netherlands	23.207.188.88	North Holland	1091
AS9498 BHARTI Airtel Ltd.	Cambridge	United States	23.205.43.107	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.203.72.243	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge (Mit)	United States	23.203.165.53	Massachusetts	
AS9605 NTT DOCOMO, INC.	Cambridge	United States	23.201.116.156	Massachusetts	02142
AS9605 NTT DOCOMO, INC.	Cambridge	United States	23.201.113.69	Massachusetts	02142
AS35994 Akamai Technologies, Inc.	Amsterdam	Netherlands	23.2.208.34	North Holland	1091
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.2.139.5	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.199.72.229	Massachusetts	02142
AS26769 Bandcon	Cambridge	United States	23.198.239.32	Massachusetts	02142
AS2914 NTT America, Inc.	Cambridge (Mit)	United States	23.196.203.128	Massachusetts	
AS20940 Akamai International B.V.	Amsterdam	Netherlands	23.13.250.218	North Holland	1091
AS15003 Nobis Technology Group, LLC	Phoenix	United States	23.110.192.178	Arizona	85054
AS15003 Nobis Technology Group, LLC	Dallas	United States	23.106.163.6	Texas	75207
AS15003 Nobis Technology Group, LLC	Phoenix	United States	23.105.154.72	Arizona	85054
AS15003 Nobis Technology Group, LLC	Phoenix	United States	23.105.154.1	Arizona	85054
AS20940 Akamai International B.V.	Amsterdam	Netherlands	23.1.90.119	North Holland	1091
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.1.18.230	Massachusetts	02142
AS20940 Akamai International B.V.	Beverly Hills	United States	23.0.59.252	California	90209
AS24444 Shandong Mobile Communication Company Limited	Weifang	China	223.97.178.4	Shandong	
AS4134 No.31,Jin-rong Street	Taiyuan	China	223.8.239.95	Shanxi	
AS4134 No.31,Jin-rong Street	Taiyuan	China	223.8.163.83	Shanxi	

AS24444 Shandong Mobile Communication Company Limited	Jimo	China	223.79.148.101	Shandong	
AS56046 China Mobile communications corporation	Xinpu	China	223.67.240.223	Jiangsu	
AS4134 No.31,Jin-rong Street	Xuanzhou	China	223.246.204.212	Anhui	
AS4134 No.31,Jin-rong Street	Lu'an	China	223.243.119.239	Anhui	
AS7470 TRUE INTERNET Co.,Ltd.	Huai Khwang	Thailand	223.24.217.246	Bangkok	10320
AS4134 No.31,Jin-rong Street	Wuhu	China	223.215.147.209	Anhui	
AS4134 No.31,Jin-rong Street	Hefei	China	223.214.197.77	Anhui	
AS45758 Triple T Internet/Triple T Broadband	Chiang Mai	Thailand	223.206.228.217	Chiang Mai Province	50000
AS4134 No.31,Jin-rong Street	Haikou	China	223.198.65.226	Hainan	
AS9304 Hutchison Global Communications	City of Victoria	Hong Kong	223.16.249.76	Central and Western District	
AS4134 No.31,Jin-rong Street	Changsha	China	223.158.162.7	Hunan	
AS4134 No.31,Jin-rong Street	Changsha	China	223.157.151.45	Hunan	
AS4134 No.31,Jin-rong Street	Changsha	China	223.156.217.198	Hunan	
AS4134 No.31,Jin-rong Street	Taiyuan	China	223.15.12.245	Shanxi	
AS4134 No.31,Jin-rong Street	Changsha	China	223.146.156.79	Hunan	
AS9689 FCABLE-AS	Tobong	Republic of Korea	223.131.83.21	Gyeonggi-do	
AS58453 Level 30, Tower 1	Kowloon	Hong Kong	223.119.219.105	Kowloon City	
AS4134 No.31,Jin-rong Street	Taiyuan	China	223.10.22.244	Shanxi	
AS4134 No.31,Jin-rong Street	Nanjing	China	222.95.22.190	Jiangsu	
AS4134 No.31,Jin-rong Street	Nanjing	China	222.94.117.198	Jiangsu	
AS4134 No.31,Jin-rong Street	Luoyang	China	222.89.68.34	Henan	
AS4134 No.31,Jin-rong Street	Karamay	China	222.83.95.44	Xinjiang	
AS4134 No.31,Jin-rong Street	Longyan	China	222.78.117.12	Fujian	
AS9394 China TieTong Telecommunications Corporation	Beijing	China	222.34.102.82	Beijing	

AS38341 HEXIE Information technology Co., Ltd.	Beijing	China	222.32.65.76	Beijing	
AS45899 VNPT Corp	Da Nang	Vietnam	222.255.166.214	Thanh Pho GJa Nang	
AS4134 No.31,Jin-rong Street	Changsha	China	222.245.186.4	Hunan	
AS4538 China Education and Research Network Center	Xi'an (Beilin Qu)	China	222.24.255.187	Shaanxi	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	222.236.16.17	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	222.235.54.235	Seoul	
AS9318 SK Broadband Co Ltd	Seongnam-si	Republic of Korea	222.234.62.52	Gyeonggi-do	
AS9318 SK Broadband Co Ltd	Incheon	Republic of Korea	222.234.138.249	Incheon	
AS9318 SK Broadband Co Ltd	Busan	Republic of Korea	222.232.223.34	Busan	
AS4134 No.31,Jin-rong Street	Kunming	China	222.221.26.226	Yunnan	
AS4134 No.31,Jin-rong Street	Changzhou	China	222.188.233.77	Jiangsu	
AS4134 No.31,Jin-rong Street	Xintai	China	222.173.27.83	Shandong	
AS4134 No.31,Jin-rong Street	Harbin	China	222.172.34.31	Heilongjiang	
AS4134 No.31,Jin-rong Street	Harbin	China	222.171.77.143	Heilongjiang	
AS4837 CHINA UNICOM China169 Backbone	Changchun	China	222.161.41.132	Jilin	
AS4837 CHINA UNICOM China169 Backbone	Xiaosiping	China	222.160.27.215	Jilin	
AS7482 Asia Pacific On-line Service Inc.	Taipei	Taiwan	222.156.21.144	Taipei City	
AS4837 CHINA UNICOM China169 Backbone	Xinyang	China	222.140.179.195	Henan	
AS4837 CHINA UNICOM China169 Backbone	Luoyang	China	222.138.224.170	Henan	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	222.134.180.18	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	222.133.11.31	Shandong	
AS4808 China Unicom Beijing Province Network	Beijing	China	222.131.221.99	Beijing	
AS4766 Korea Telecom	Seoul	Republic of Korea	222.121.42.92	Seoul	
AS4766 Korea Telecom	Uijeongbu-si	Republic of Korea	222.120.39.182	Gyeonggi-do	

AS4766 Korea Telecom	Seoul	Republic of Korea	222.120.136.117	Seoul	
AS4766 Korea Telecom	Suwon	Republic of Korea	222.117.163.117	Gyeonggi-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	222.109.55.71	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	222.106.28.135	Seoul	
AS4766 Korea Telecom	Iksan	Republic of Korea	222.105.75.112	Jeollabuk-do	
AS4766 Korea Telecom	Gyeongju	Republic of Korea	222.102.71.215	Gyeongsangbuk-do	
AS17676 Softbank BB Corp.	Kagoshima	Japan	221.88.191.253	Kagoshima	890-0062
AS17816 China Unicom IP network China169 Guangdong province	Guangzhou	China	221.4.0.219	Guangdong	
AS17676 Softbank BB Corp.	Akita	Japan	221.26.230.154	Akita	013-0024
AS17506 UCOM Corp.	Tokyo	Japan	221.242.27.153	Tokyo	190-0031
AS17638 ASN for TIANJIN Provincial Net of CT	Tianjin	China	221.238.108.107	Tianjin	
AS4134 No.31,Jin-rong Street	Enshi	China	221.234.77.100	Hubei	
AS4134 No.31,Jin-rong Street	Wuhan	China	221.234.237.118	Hubei	
AS4134 No.31,Jin-rong Street	Wuhan	China	221.232.47.99	Hubei	
AS4134 No.31,Jin-rong Street	Nanjing	China	221.226.210.207	Jiangsu	
AS4808 China Unicom Beijing Province Network	Beijing	China	221.223.82.36	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	221.222.223.249	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	221.219.68.150	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	221.216.121.70	Beijing	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	221.215.179.118	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinrongjie (Xicheng Qu)	China	221.209.28.67	Beijing	
AS4837 CHINA UNICOM China169 Backbone	Taiyuan	China	221.205.215.66	Shanxi	
AS4837 CHINA UNICOM China169 Backbone	Xinning	China	221.201.207.7	Gansu	
AS4837 CHINA UNICOM China169 Backbone	Dongying	China	221.2.233.121	Shandong	

AS4837 CHINA UNICOM China169 Backbone	Jinan	China	221.2.119.155	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Yinchuan	China	221.199.65.219	Ningsia Hui Autonomous Region	
AS4837 CHINA UNICOM China169 Backbone	Tianjin	China	221.196.254.225	Tianjin	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	221.195.231.97	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	221.192.76.174	Hebei	
AS56044 China Mobile communications corporation	Shenyang	China	221.180.185.178	Liaoning	
AS4766 Korea Telecom	Daegu	Republic of Korea	221.164.129.54	Daegu	
AS4766 Korea Telecom	Busan	Republic of Korea	221.161.253.119	Busan	
AS4766 Korea Telecom	Gwangju	Republic of Korea	221.159.75.126	Gwangju	
AS4766 Korea Telecom	Daejeon	Republic of Korea	221.158.184.233	Daejeon	
AS4766 Korea Telecom	Pohang	Republic of Korea	221.157.228.114	Gyeongsangbuk-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	221.147.39.241	Seoul	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	221.144.34.181	Gyeonggi-do	
AS4837 CHINA UNICOM China169 Backbone	Pingdingshan	China	221.14.240.91	Henan	
AS4721 Jupiter Telecommunications Co., Ltd.	Kunitachi	Japan	221.132.172.149	Tokyo	186-0001
AS9304 Hutchison Global Communications	City of Victoria	Hong Kong	221.126.46.162	Central and Western District	
AS7602 Saigon Postel Corporation	Ho Chi Minh City	Vietnam	221.121.37.29	Ho Chi Minh City	
AS4837 CHINA UNICOM China169 Backbone	Yinchuan	China	221.11.241.197	Ningsia Hui Autonomous Region	
AS4837 CHINA UNICOM China169 Backbone	Yinchuan	China	221.11.237.119	Ningsia Hui Autonomous Region	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	221.0.219.29	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Yantai	China	221.0.124.169	Shandong	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	220.93.88.78	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	220.91.70.176	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	220.91.198.113	Gyeonggi-do	

AS4766 Korea Telecom	Seongnam-si	Republic of Korea	220.91.193.212	Gyeonggi-do	
AS4766 Korea Telecom	Nangen	Republic of Korea	220.87.174.177	Jeollabuk-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	220.72.215.104	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	220.72.171.35	Seoul	
AS17676 Softbank BB Corp.	Sakaidecho	Japan	220.45.197.253	Kagawa	762-0043
AS4739 Internode Pty Ltd	Mildura	Australia	220.253.11.213	Victoria	3500
AS2519 ARTERIA Networks Corporation	Yokohama	Japan	220.247.52.88	Kanagawa	231-0005
AS9919 New Century InfoComm Tech Co., Ltd.	Taipei	Taiwan	220.229.79.228	Taipei City	
AS18101 Reliance Communications Ltd.DAKC MUMBAI	Kolkata	India	220.226.148.198	West Bengal	700001
AS18101 Reliance Communications Ltd.DAKC MUMBAI	Kolkata	India	220.225.0.176	West Bengal	700001
AS4837 CHINA UNICOM China169 Backbone	Beijing	China	220.194.196.103	Beijing Shi	
AS4134 No.31,Jin-rong Street	Nanchang	China	220.176.242.88	Jiangxi	
AS4134 No.31,Jin-rong Street	Haikou	China	220.174.13.100	Hainan	
AS10013 FreeBit Co.,Ltd.	Hekinan	Japan	220.150.212.120	Aichi	484-0902
AS3462 Data Communication Business Group	Taipei	Taiwan	220.135.201.180	Taipei City	
AS3462 Data Communication Business Group	Nantou City	Taiwan	220.134.76.90	Nantou	
AS4766 Korea Telecom	Jeju City	Republic of Korea	220.124.220.220	Jeju-do	
AS4766 Korea Telecom	Daejeon	Republic of Korea	220.124.128.6	Daejeon	
AS4766 Korea Telecom	Seoul	Republic of Korea	220.122.225.54	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	220.118.78.240	Seoul	
AS4713 NTT Communications Corporation	Sapporo	Japan	220.104.119.185	Hokkaido	098-5722
AS4760 PCCW Limited	City of Victoria	Hong Kong	219.76.182.90	Central and Western District	
AS9416 Hoshin Multimedia Center Inc.	Kaohsiung City	Taiwan	219.70.29.194	Kaohsiung	

AS9416 Hoshin Multimedia Center Inc.	Kaohsiung City	Taiwan	219.68.17.109	Kaohsiung	
AS4725 SoftBank Mobile Corp.	Yokohama	Japan	219.67.8.221	Kanagawa	231-0005
AS17676 Softbank BB Corp.	Aomori	Japan	219.57.59.138	Aomori	030-0801
AS9318 SK Broadband Co Ltd	Daejeon	Republic of Korea	219.255.69.252	Daejeon	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	219.240.222.1	Seoul	
AS4538 China Education and Research Network Center	Huainan (Tianjia'an Qu)	China	219.231.25.2	Anhui	
AS17676 Softbank BB Corp.	Nihon'odori	Japan	219.207.70.49	Kanagawa	231-0047
AS17676 Softbank BB Corp.	Narashino	Japan	219.189.183.33	Chiba	274-0071
AS17676 Softbank BB Corp.	Minamiashigara	Japan	219.177.151.163	Kanagawa	250-0104
AS4713 NTT Communications Corporation	Tochigi	Japan	219.164.52.179	Tochigi	328-0012
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	219.156.234.190	Henan	
AS134420 Chongqing Telecom	Chongqing	China	219.153.50.251	Chongqing	
AS4134 No.31,Jin-rong Street	Qingdao	China	219.147.12.37	Shandong	
AS4134 No.31,Jin-rong Street	Jingling	China	219.138.240.145	Hubei	
AS4134 No.31,Jin-rong Street	Wuhan	China	219.138.224.209	Hubei	
AS10000 Nagasaki Cable Media Inc.	Nagasaki	Japan	219.109.78.211	Nagasaki	852-8001
AS4134 No.31,Jin-rong Street	Jintan	China	218.93.59.174	Jiangsu	
AS4134 No.31,Jin-rong Street	Nanjing	China	218.90.167.127	Jiangsu	
AS4134 No.31,Jin-rong Street	Chengdu	China	218.89.174.223	Sichuan	
AS4134 No.31,Jin-rong Street	Longyan	China	218.86.84.62	Fujian	
AS4134 No.31,Jin-rong Street	Jiaxing	China	218.75.56.245	Zhejiang	
AS4134 No.31,Jin-rong Street	Lianfeng	China	218.67.85.14	Fujian	
AS4837 CHINA UNICOM China169 Backbone	Tianjin	China	218.67.203.77	Tianjin	

AS4134 No.31,Jin-rong Street	Quanzhou	China	218.66.185.164	Fujian	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	218.28.125.168	Henan	
AS4837 CHINA UNICOM China169 Backbone	Taiyuan	China	218.26.233.82	Shanxi Sheng	
AS9829 National Internet Backbone	Bengaluru	India	218.248.139.234	Karnataka	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	218.236.12.225	Seoul	
AS9808 Guangdong Mobile Communication Co.Ltd.	Nanchang	China	218.204.86.137	Jiangxi	
AS9808 Guangdong Mobile Communication Co.Ltd.	Lanzhou	China	218.203.190.65	Gansu	
AS3462 Data Communication Business Group	Kaohsiung City	Taiwan	218.164.113.250	Kaohsiung	
AS4766 Korea Telecom	Seoul	Republic of Korea	218.159.193.83	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	218.153.245.121	Seoul	
AS4134 No.31,Jin-rong Street	Yunfu	China	218.15.203.211	Guangdong	
AS4766 Korea Telecom	Seoul	Republic of Korea	218.144.176.227	Seoul	
AS17676 Softbank BB Corp.	Tokyo	Japan	218.138.146.195	Tokyo	190-0031
AS8881 I&I Versatel Deutschland GmbH	Dusseldorf (Stadtbezirk 04)	Germany	217.9.114.49	North Rhine-Westphalia	
AS3320 Deutsche Telekom AG	Seebruck	Germany	217.88.64.218	Bavaria	83358
AS3320 Deutsche Telekom AG	Cuxhaven	Germany	217.87.93.36	Lower Saxony	27474
AS3320 Deutsche Telekom AG	Bergkamen	Germany	217.83.61.251	North Rhine-Westphalia	59192
AS8419 HotChilli Internet	Cambridge	United Kingdom	217.72.171.77	England	CB2
AS34154 Configo Systems Gesellschaft fuer Systemloesungen mbH	Darmstadt	Germany	217.71.219.29	Hesse	64289
AS29125 PVimpelCom	Kazan'	Russia	217.30.248.46	Tatarstan	422528
AS3320 Deutsche Telekom AG	Hausach	Germany	217.249.151.142	Baden-Württemberg Region	77756
AS3320 Deutsche Telekom AG	Pfedelbach	Germany	217.249.119.33	Baden-Württemberg Region	74629
AS3320 Deutsche Telekom AG	Landshut	Germany	217.233.149.231	Bavaria	84036
AS3320 Deutsche Telekom AG	Hanover	Germany	217.225.52.242	Lower Saxony	30171

AS3301 Telia Company AB	Alingsas	Sweden	217.215.66.36	Västra Götaland	441 01
AS3301 Telia Company AB	Vaxjo	Sweden	217.211.217.221	Kronoberg	350 07
AS5416 Batelco	Manama	Bahrain	217.17.224.67	Manama	
AS8220 COLT Technology Services Group Limited	Frankfurt am Main	Germany	217.111.112.189	Hesse	
AS9143 Ziggo	Groningen	Netherlands	217.104.44.3	Groningen	9737
AS9143 Ziggo	Annen	Netherlands	217.101.138.254	Provincie Drenthe	9468
AS9143 Ziggo	Groningen	Netherlands	217.100.78.99	Groningen	9718
AS13124 Mobiltel Ead	Gurkovo	Bulgaria	217.10.250.70	Oblast Stara Zagora	6199
AS11814 DISTRIBUTEL COMMUNICATIONS LTD.	Scarborough	Canada	216.58.42.113	Ontario	MIH
AS3356 Level 3 Communications, Inc.	Toronto	Canada	216.55.97.161	Ontario	M9C
AS3593 Frontier Communications of America, Inc.	Kingston	United States	216.37.165.45	Pennsylvania	18704
AS3593 Frontier Communications of America, Inc.	Factoryville	United States	216.37.143.178	Pennsylvania	18419
AS20401 Hostway Corporation	Chicago	United States	216.36.239.5	Illinois	60606
AS2828 MCI Communications Services, Inc. d/b/a Verizon Business	Newark	United States	216.3.141.19	New Jersey	
AS14416 Internet de Nuevo Laredo, S.A de C.V.	Laredo	United States	216.251.94.15	Texas	78045
AS11814 DISTRIBUTEL COMMUNICATIONS LTD.	Clarence-Rockland	Canada	216.246.224.191	Ontario	
AS7795 LUMOS Networks, Inc.	Montvale	United States	216.24.102.24	Virginia	24122
AS11766 Meriplex Communications, Ltd.	Spring	United States	216.23.206.15	Texas	77379
AS7735 Red Shift, Inc.	Salinas	United States	216.228.31.250	California	93907
AS18897 Montana Sky Networks, Inc.	Kalispell	United States	216.211.179.104	Montana	59901
AS16423 NETTOGO	Miami	United States	216.21.72.78	Florida	33176
AS2828 MCI Communications Services, Inc. d/b/a Verizon Business	Los Angeles	United States	216.2.245.72	California	90035
AS36352 ColoCrossing	Los Angeles	United States	216.170.113.247	California	90012
AS14472 Rogers Communications Canada Inc.	Harriston	Canada	216.16.235.186	Ontario	
AS26794 Dakota Carrier Network	Fargo	United States	216.147.160.242	North Dakota	58102

AS32618 Adknowledge, Inc.	Kansas City	United States	216.145.219.15	Missouri	64112
AS3356 Level 3 Communications, Inc.	Austin (The Setting)	United States	216.143.28.57	Texas	
AS18943 YELCOT TELEPHONE COMPANY	Salem	United States	216.134.235.75	Arkansas	72576
AS22435 Oracle Corporation	Redwood City	United States	216.131.150.238	California	94065
AS10843 Advanced Internet Technologies	Fayetteville	United States	216.117.131.44	North Carolina	28301
AS11668 WEST COAST INTERNET INCORPORATED	Laguna Woods	United States	216.115.234.28	California	92637
AS5769 Videotron Telecom Ltee	Boucherville	Canada	216.113.72.78	Quebec	J4B
AS7018 AT&T; Services, Inc.	Tuscaloosa	United States	216.106.146.69	Alabama	35401
AS3352 Telefonica De Espana	Madrid	Spain	213.99.246.54	Madrid	
AS12334 R Cable y Telecomunicaciones Galicia, S.A.	Santiago de Compostela	Spain	213.60.68.220	Galicia	15706
AS48176 OOO SET	Nevinnomyssk	Russia	213.59.147.3	Stavropol'skiy Kray	357100
AS6805 Telefonica Germany	Berlin	Germany	213.39.190.210	Land Berlin	12529
AS8447 A1 Telekom Austria AG	Engabrunn	Austria	213.33.8.38	Lower Austria	3492
AS200484 Sendinblue SAS	Paris	France	213.32.155.133	Île-de-France	
AS9211 N@work Internet Informationssysteme GmbH	Hamburg	Germany	213.238.47.138	Hamburg	22453
AS2860 Nos Comunicacoes, S.A.	Fao	Portugal	213.22.176.105	Braga	4740-322
AS12552 IP-Only Networks AB	Järfälla Municipality	Sweden	213.212.36.250	Stockholm	
AS15943 wilhelm.tel GmbH	Norderstedt	Germany	213.209.120.215	Schleswig-Holstein	22848
AS15805 MTN Cyprus Limited	Nicosia	Cyprus	213.207.139.94	Lefkosia	
AS3303 Swisscom (Switzerland) Ltd	Zurich (Zürich (Kreis 3) / Alt-Wiedikon)	Switzerland	213.200.232.121	Zurich	
AS20900 SAEM Intermediasud	Mougins	France	213.190.78.75	Provence-Alpes-Côte d'Azur	06250
AS44735 Simafelagid ehf	Reykjavik	Iceland	213.181.115.178	Capital Region	105
AS43763 Haut-Rhin Telecom	Ostheim	France	213.176.222.99	Grand-Est	68150
AS12637 SEEWEB s.r.l.	Monte San Giovanni Campano	Italy	213.171.189.9	Latium	03025
AS8560 1&1 Internet SE	Karlsruhe (Südweststadt)	Germany	213.165.92.156	Baden-Württemberg	

AS13054 FreiNet Gesellschaft fuer Informationsdienste mbH	Freiburg	Germany	213.164.80.252	Baden-Württemberg Region	79106
AS1901 A1 Telekom Austria AG	Villach	Austria	213.157.156.98	Carinthia	9500
AS207214 Iztochni Rodopi Ltd.	Sofia	Bulgaria	213.145.111.87	Sofia-Capital	1000
AS203424 Tussa Ikt As	Volda	Norway	213.128.164.55	More og Romsdal fylke	6100
AS9143 Ziggo	Deventer	Netherlands	213.125.108.193	Provincie Overijssel	7411
AS42525 GlobalConnect A/S	Holstebro	Denmark	212.98.79.58	Central Jutland	7500
AS8251 FreeTel, s.r.o.	Kladno	Czechia	212.79.96.103	Central Bohemia	272 01
AS15691 Leonet srl	Arquata Scrivia	Italy	212.77.93.70	Piedmont	15061
AS47270 Digit One LLC	Moscow	Russia	212.41.34.84	Moscow	102128
AS44395 Ucom LLC	Yerevan	Armenia	212.34.241.236	Yerevan	
AS29582 Optisprint	Pleven	Bulgaria	212.233.204.167	Oblast Pleven	5800
AS8560 1&1 Internet SE	Offenbach	Germany	212.227.154.232	Hesse	
AS8319 NETHINKS GmbH	Koblenz	Germany	212.218.72.9	Rheinland-Pfalz	56072
AS3269 Telecom Italia	Livorno	Italy	212.216.208.225	Tuscany	57128
AS8767 M-net Telekommunikations GmbH	Nuremberg	Germany	212.204.71.249	Bavaria	
AS8400 TELEKOM SRBIJA a.d.	Belgrade (New Belgrade)	Serbia	212.200.99.156	Central Serbia	
AS8400 TELEKOM SRBIJA a.d.	Arilje	Serbia	212.200.92.213	Central Serbia	
AS12389 PJSC Rostelecom	Novosibirsk (Tsentralnyy)	Russia	212.20.42.121	Novosibirsk	
AS12389 PJSC Rostelecom	Novosibirsk	Russia	212.20.40.181	Novosibirskaya Oblast'	630004
AS41497 Qcom spa	Treviglio	Italy	212.183.173.143	Lombardy	24047
AS3301 Telia Company AB	Malmo	Sweden	212.181.73.250	Skåne	208 42
AS9208 WIN S.A.	Namur	Belgium	212.166.11.27	Wallonia	
AS12389 PJSC Rostelecom	Berdsk	Russia	212.164.138.128	Novosibirskaya Oblast'	633004
AS3356 Level 3 Communications, Inc.	Haltern	Germany	212.162.24.217	North Rhine-Westphalia	45721
AS9198 JSC Kazakhtelecom	Astana	Kazakhstan	212.154.250.129	Astana Qalasy	
AS8767 M-net Telekommunikations GmbH	Munich	Germany	212.114.227.238	Bavaria	80992
AS2119 Telenor Norge AS	Örebro	Sweden	212.105.91.228	Örebro	700 08
AS4837 CHINA UNICOM China169 Backbone	Beijing (Xicheng Qu)	China	211.91.154.67	Beijing	
AS4662 GCNet (Reach & Range Inc.)	Taipei	Taiwan	211.76.70.71	Taipei City	
AS4662 GCNet (Reach & Range Inc.)	Taipei	Taiwan	211.76.65.105	Taipei City	

AS3462 Data Communication Business Group	Kaohsiung City	Taiwan	211.75.254.13	Kaohsiung	
AS3462 Data Communication Business Group	Kaohsiung City	Taiwan	211.75.228.63	Kaohsiung	
AS4766 Korea Telecom	Seoul	Republic of Korea	211.62.84.221	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	211.48.114.17	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.44.89.102	Seoul	
AS3786 LG DACOM Corporation	Seoul (Hangang-daero)	Republic of Korea	211.40.59.35	Seoul	
AS9443 Primus Telecommunications	Seven Hills	Australia	211.26.136.150	New South Wales	1730
AS9457 DREAMLINE CO.	Seoul	Republic of Korea	211.249.18.164	Seoul	
AS9318 SK Broadband Co Ltd	Cheongju-si	Republic of Korea	211.244.119.81	North Chungcheong	
AS38661 purplestones	Seoul	Republic of Korea	211.241.242.14	Seoul	
AS4766 Korea Telecom	Gwangju	Republic of Korea	211.227.146.141	Gwangju	
AS4766 Korea Telecom	Bucheon-si	Republic of Korea	211.226.155.78	Gyeonggi-do	
AS4766 Korea Telecom	Jeonju	Republic of Korea	211.225.146.151	Jeollabuk-do	
AS4766 Korea Telecom	Busan	Republic of Korea	211.220.152.160	Busan	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.214.24.212	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.211.51.66	Seoul	
AS9318 SK Broadband Co Ltd	Daejeon	Republic of Korea	211.211.201.176	Daejeon	
AS9318 SK Broadband Co Ltd	Uijeongbu-si	Republic of Korea	211.210.191.220	Gyeonggi-do	
AS9318 SK Broadband Co Ltd	Seoul (Hoehyeon-dong)	Republic of Korea	211.209.216.25	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.207.20.251	Seoul	
AS9318 SK Broadband Co Ltd	Seoul (Hoehyeon-dong)	Republic of Korea	211.207.0.91	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.206.41.28	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.204.214.131	Seoul	

AS9318 SK Broadband Co Ltd	Daegu	Republic of Korea	211.200.242.77	Daegu	
AS9318 SK Broadband Co Ltd	Jecheon	Republic of Korea	211.200.144.124	North Chungcheong	
AS4766 Korea Telecom	Murten/Morat	Switzerland	211.188.29.77	Fribourg	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.186.235.239	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	211.185.43.40	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.179.60.32	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.176.234.244	Seoul	
AS18313 CJ Hello Co., Ltd.	Incheon	Republic of Korea	211.173.167.242	Incheon	
AS17964 Beijing Dian-Xin-Tong Network Technologies Co., Ltd.	Beijing	China	211.161.195.113	Beijing	
AS9808 Guangdong Mobile Communication Co.Ltd.	Hubei	China	211.137.62.19	Jiangxi	
AS24400 Shanghai Mobile Communications Co.,Ltd.	Shanghai	China	211.136.171.157	Shanghai	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.108.102.235	Seoul	
AS7470 TRUE INTERNET Co.,Ltd.	Bangkok	Thailand	210.86.150.97	Bangkok	10330
AS17506 UCOM Corp.	Tokyo	Japan	210.79.0.172	Tokyo	190-0031
AS3462 Data Communication Business Group	Taipei	Taiwan	210.61.164.32	Taipei City	
AS4538 China Education and Research Network Center	Wuhan	China	210.42.58.195	Hubei	
AS3786 LG DACOM Corporation	Busan	Republic of Korea	210.216.120.29	Busan	
AS3786 LG DACOM Corporation	Daejeon	Republic of Korea	210.207.223.80	Daejeon	
AS4788 TM Net, Internet Service Provider	Subang Jaya	Malaysia	210.186.116.219	Selangor	47600
AS17488 Hathway IP Over Cable Internet	Mumbai	India	210.18.178.82	Maharashtra	
AS2516 KDDI CORPORATION	Kirishima (Hayatocho Mitsugi)	Japan	210.174.65.162	Kagoshima	
AS10013 FreeBit Co.,Ltd.	Tokyo	Japan	210.143.149.209	Tokyo	190-0031
AS9848 Sejong Telecom	Pil-dong	Republic of Korea	210.122.249.69	Seoul	
AS7559 donga.com	Seoul	Republic of Korea	210.115.136.251	Seoul	

AS38661 purplestones	Seoul	Republic of Korea	210.112.163.214	Seoul	
AS9976 Namincheon Broadcasting Co., Ltd.	Incheon	Republic of Korea	210.111.177.30	Incheon	
AS17839 CJ Hello Co., Ltd.	Seoul	Republic of Korea	210.106.6.246	Seoul	
AS3593 Frontier Communications of America, Inc.	Dallas	United States	209.74.39.176	Pennsylvania	18612
AS7859 pair Networks	Pittsburgh	United States	209.68.0.227	Pennsylvania	15203
AS21627 CORNERSTONE TELEPHONE COMPANY, LLC	Albany	United States	209.239.189.178	New York	12204
AS29748 Carpathia Hosting, Inc.	Ashburn	United States	209.222.138.199	Virginia	20147
AS3595 Global Net Access, LLC	Spring	United States	209.217.230.93	Texas	77393
AS395555 ELEVATE	Hotchkiss	United States	209.206.66.66	Colorado	81419
AS22561 CenturyTel Internet Holdings, Inc.	San Marcos	United States	209.206.174.185	Texas	78666
AS11814 DISTRIBUTEL COMMUNICATIONS LTD.	Markham	Canada	209.195.97.190	Ontario	L3S
AS6428 CDM	St Louis	United States	209.126.69.215	Missouri	63146
AS10274 Excel.Net, Inc.	Sheboygan	United States	209.103.243.68	Wisconsin	53081
AS46461 CRYPTIC STUDIOS, INC.	San Jose	United States	208.95.186.159	California	95130
AS40539 Hosting Consulting, Inc	Englewood	United States	208.91.207.141	Colorado	80112
AS30144 BQ Internet Corporation	Merrick	United States	208.85.123.245	New York	11566
AS17140 CBRE, INC.	Dallas	United States	208.68.246.24	Texas	
AS18687 MPOWER COMMUNICATIONS CORP.	Duarte	United States	208.57.121.106	California	91010
AS27589 MOJOHOST	Farmington	United States	208.122.192.95	Michigan	48334
AS20021 HostMySite	Newark	United States	208.112.112.74	Delaware	19702
AS6181 Cincinnati Bell Telephone Company LLC	Harrison	United States	208.102.22.182	Ohio	45030
AS6181 Cincinnati Bell Telephone Company LLC	Newport	United States	208.102.109.41	Kentucky	41071
AS3561 Savvis	San Jose	United States	207.82.33.209	California	95157
AS36143 AWI Networks	Cedar City	United States	207.50.146.122	Utah	84720
AS11127 Globecom Network Services Corporation	Hauppauge	United States	207.241.175.53	New York	

AS2828 MCI Communications Services, Inc. d/b/a Verizon Business	Seattle	United States	207.238.10.187	Washington	98109
AS2152 California State University, Office of the Chancellor	Rialto	United States	207.233.39.222	California	92376
AS30026 Woodward, Inc.	San Francisco (Nob Hill)	United States	207.230.126.109	California	
AS852 TELUS Communications Inc.	Vancouver	Canada	207.216.41.26	British Columbia	V6A
AS30496 Colo4, LLC	St Louis	United States	207.210.217.207	Missouri	63131
AS2828 MCI Communications Services, Inc. d/b/a Verizon Business	Chicago	United States	207.208.122.182	Illinois	
AS10823 NetCarrier, Inc.	Lansdale	United States	207.207.196.238	Pennsylvania	19446
AS3728 Onramp Access LLC	Georgetown	United States	207.200.5.4	Texas	78626
AS11272 C Spire Fiber	Jackson	United States	207.181.56.41	Mississippi	39211
	San Diego	United States	207.167.122.158	California	
AS7122 MTS Inc.	Portage la Prairie	Canada	207.161.18.97	Manitoba	R1N
AS209 Qwest Communications Company, LLC	Denver	United States	207.159.85.190	Colorado	
AS14061 DigitalOcean, LLC	Frankfurt am Main	Germany	207.154.253.70	Hesse	09039
AS5752 GBIS Holdings Inc.	Reno	United States	207.135.207.72	Nevada	89511
AS209 Qwest Communications Company, LLC	Kent	United States	207.108.214.166	Washington	98031
AS7122 MTS Inc.	Winnipeg	Canada	206.45.63.58	Manitoba	R3R
AS17054 CONTINENTAL BROADBAND PENNSYLVANIA, INC.	Baltimore	United States	206.41.205.13	Maryland	21217
AS13332 Hype Enterprises	Albuquerque	United States	206.206.179.63	New Mexico	87102
AS26288 Keewaytinook Okimakanak	Pikangikum	Canada	206.188.125.226	Ontario	
AS40165 TeraMESH Networks, LLC.	Newport Beach	United States	206.128.91.102	California	92660
AS5714 Hewlett-Packard Company	Palo Alto	United States	206.120.161.65	California	94304
AS11486 MCI Communications Services, Inc. d/b/a Verizon Business	Newark	United States	206.112.72.73	New Jersey	
AS26347 New Dream Network, LLC	Brea	United States	205.196.222.99	California	92821
AS6594 JAB Wireless, INC.	Pocatello	United States	205.185.95.5	Idaho	83201
AS40328 AcenTek	Lanesboro	United States	205.185.140.224	Minnesota	55949

AS22192 Pennsylvania State System of Higher Education	Mars	United States	205.149.86.133	Pennsylvania	16046
AS62983 The Massachusetts Port Authority	Boston	United States	205.143.233.158	Massachusetts	02128
AS25650 ION MEDIA NETWORKS	Clearwater	United States	205.140.146.70	Florida	33756
AS17139 Corporate Colocation Inc.	Los Angeles	United States	205.134.243.44	California	90039
AS54330 Disney Worldwide Services, Inc.	Burbank	United States	204.87.172.4	California	
AS1761 General Services Commission	Austin	United States	204.64.20.61	Texas	78754
AS12119 ITV-3	Morton	United States	204.42.29.170	Illinois	61550
AS21976 NJEDge.Net, Inc.	West Long Branch	United States	204.152.148.90	New Jersey	07764
AS395437 Highland Communications LLC	Whitley City	United States	204.116.5.91	Kentucky	42653
AS9929 CHINA UNICOM Industrial Internet Backbone	Guangxi	China	203.93.39.4	Jiangsu	
AS4780 Digital United Inc.	Magong	Taiwan	203.73.105.5	Penghu	
AS4739 Internode Pty Ltd	Clapham	Australia	203.7.24.250	South Australia	5062
AS7545 TPG Telecom Limited	Lindfield	Australia	203.63.125.120	New South Wales	2070
AS4739 Internode Pty Ltd	Perth	Australia	203.59.171.218	Western Australia	6000
AS1221 Telstra Pty Ltd	Campbellfield	Australia	203.47.48.65	Victoria	3061
AS9848 Sejong Telecom	Seoul (Seogyo-dong)	Republic of Korea	203.238.4.134	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	203.229.243.99	Seoul	
AS7545 TPG Telecom Limited	Camperdown	Australia	203.220.124.170	New South Wales	2050
AS9729 iAdvantage Limited	Hong Kong	Hong Kong	203.194.177.246	Central and Western	
AS17665 AS Number of In2cable.com (India) Ltd.	Mumbai	India	203.194.106.47	Maharashtra	410210
AS4618 Internet Thailand Company Limited	Bangkok	Thailand	203.151.97.34	Bangkok	
AS2554 Yahoo Japan Corporation	Tokyo	Japan	203.145.227.173	Tokyo	190-0031
AS17608 ABN	Seoul	Republic of Korea	203.128.222.9	Seoul	
AS4788 TM Net, Internet Service Provider	Kangar	Malaysia	203.106.106.130	Perlis	01609
AS4134 No.31,Jin-rong Street	Beijing	China	202.98.87.36	Beijing	
AS133001 Airmet Cable And Datacom Pvt Ltd	Mumbai	India	202.94.162.42	Maharashtra	400064

AS45458 SBN-ISP/AWN-ISP and SBN-NIX/AWN-NIX	Phitsanulok	Thailand	202.80.240.9	Changwat Phitsanulok	65000
AS38509 PT. Maxima Data	Jember	Indonesia	202.51.56.127	East Java	
AS4621 UNINET-	Bangkok	Thailand	202.28.220.18	Bangkok	10170
AS2907 Research Organization of Information and Systems, National Institute of Informatics	Iwaki	Japan	202.242.101.172	Fukushima-ken	
AS9374 EDION Corporation	Hiroshima	Japan	202.224.81.225	Hiroshima	730-0031
AS7540 HongKong Commercial Internet Exchange	City of Victoria	Hong Kong	202.181.235.62	Central and Western District	
AS38145 PT. Panca Dewata Utama	Jakarta	Indonesia	202.180.51.247	Jakarta	
AS24183 DTS LTD	Ashburton	New Zealand	202.174.190.198	Canterbury	7700
AS9506 Singtel Fibre Broadband	Singapore	Singapore	202.166.4.185	Central Singapore Community Development Council	
AS9506 Singtel Fibre Broadband	Singapore	Singapore	202.166.23.145	Central Singapore Community Development Council	
AS9420 Hong Kong Communications Co. Ltd.	City of Victoria	Hong Kong	202.146.124.16	Central and Western District	
AS7642 Dhivehi Raajjeyge Gulhun (Dhiraagu)	Malé	Maldives	202.1.192.150	Kaafu Atoll	
AS7738 Telemar Norte Leste S.A.	Eunapolis	Brazil	201.8.124.27	Bahia	
AS28573 CLARO S.A.	Rio de Janeiro	Brazil	201.53.5.39	Rio de Janeiro	
AS28573 CLARO S.A.	São Paulo	Brazil	201.52.75.119	Sao Paulo	
AS27699 TELEFÔNICA BRASIL S.A	São Paulo	Brazil	201.43.252.1	Sao Paulo	
AS27699 TELEFÔNICA BRASIL S.A	Carapicui	Brazil	201.27.213.216	Sao Paulo	
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Curitiba	Brazil	201.25.160.250	Parana	
AS8048 CANTV Servicios, Venezuela	Caracas	Venezuela	201.243.60.95	Capital	
AS8048 CANTV Servicios, Venezuela	Caracas (Roca Tarpeya)	Venezuela	201.243.173.14	Capital	
AS10481 Prima S.A.	Córdoba	Argentina	201.231.71.109	Cordoba	5000
AS10481 Prima S.A.	Salta	Argentina	201.231.188.19	Salta	4400
AS6400 Compañía Dominicana de Teléfonos, C. por A. - CODETEL	Santo Domingo	Dominican Republic	201.229.245.103	Nacional	10206
AS20255 Tecnowind S.A.	Montevideo	Uruguay	201.221.5.9	Departamento de Montevideo	11700
	Asunción	Paraguay	201.217.27.197	Asuncion	

AS16814 NSS S.A.	Buenos Aires	Argentina	201.216.229.178	Buenos Aires F.D.	34034
AS22047 VTR BANDA ANCHA S.A.	Santiago	Chile	201.214.211.80	Santiago Metropolitan	
AS8048 CANTV Servicios, Venezuela	Caracas	Venezuela	201.208.248.237	Capital	
AS8048 CANTV Servicios, Venezuela	San Cristóbal	Venezuela	201.208.135.160	Táchira	
AS7738 Telemar Norte Leste S.A.	Contagem	Brazil	201.18.165.131	Minas Gerais	
AS8151 Uninet S.A. de C.V.	Tijuana	Mexico	201.171.9.251	Estado de Baja California	22703
AS8151 Uninet S.A. de C.V.	Tijuana	Mexico	201.170.133.109	Estado de Baja California	22703
AS8151 Uninet S.A. de C.V.	Tijuana	Mexico	201.170.100.216	Estado de Baja California	22703
AS52871 TASCOM TELECOMUNICAÇÕES LTDA	Salvador	Brazil	201.157.232.78	Bahia	
	Cuautitlán Izcalli	Mexico	201.153.191.24	Estado de Mexico	54740
AS8151 Uninet S.A. de C.V.	Cuautitlán Izcalli	Mexico	201.145.233.111	Estado de Mexico	54740
AS8151 Uninet S.A. de C.V.	Tultitlan	Mexico	201.145.155.154	Estado de Mexico	54918
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	201.137.121.47	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	201.124.155.207	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Boca del Rio	Mexico	201.123.229.163	Veracruz	94297
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	201.119.105.76	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Martinez de la Torre	Mexico	201.108.79.208	Veracruz	93489
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	201.103.155.63	Mexico City	63000
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Morro Reuter	Brazil	200.96.76.17	Rio Grande do Sul	
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Santa Maria	Brazil	200.96.123.219	Rio Grande do Sul	
AS61772 Braudes e Sá Ltda	Goianesia	Brazil	200.95.181.113	Goias	76380
AS6568 Entel S.A. - EntelNet	La Paz	Bolivia	200.87.129.29	Departamento de La Paz	
AS22047 VTR BANDA ANCHA S.A.	Antofagasta	Chile	200.86.22.197	Antofagasta	
AS22047 VTR BANDA ANCHA S.A.	Arica	Chile	200.86.113.96	Region de Arica y Parinacota	
AS28088 Inversiones Apolo S.A. de C.V.	San Pedro Sula	Honduras	200.59.28.178	Departamento de Cortes	

AS8048 CANTV Servicios, Venezuela	Charallave	Venezuela	200.44.61.128	Miranda	
AS262398 Thiago Borsato Nazzi ME	Fernandopolis	Brazil	200.33.156.50	Sao Paulo	15600
AS52416 COOP LTDA DE LUZ Y FUERZA ELECT. DE MAR DE AJO	Mar de Ajo	Argentina	200.31.247.45	Buenos Aires	7109
AS262660 Consult Informatica Ltda	Cacapava do Sul	Brazil	200.237.94.158	Rio Grande do Sul	96570
AS28649 Desktop Sigmanet Comunicação Multimídia Ltda	Sumaré	Brazil	200.236.236.55	Sao Paulo	
AS16735 ALGAR TELECOM S/A	São Paulo	Brazil	200.233.161.126	Sao Paulo	
AS27699 TELEFÔNICA BRASIL S.A	Ourinhos	Brazil	200.232.170.246	Sao Paulo	
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Sao Bonifacio	Brazil	200.215.6.120	Santa Catarina	
AS16397 EQUINIX BRASIL SP	São Paulo	Brazil	200.198.191.110	Sao Paulo	
AS4230 CLARO S.A.	Jacareí	Brazil	200.174.132.170	Sao Paulo	
AS27699 TELEFÔNICA BRASIL S.A	Pirassununga	Brazil	200.161.159.45	Sao Paulo	
AS2715 Fundação Carlos Chagas Filho de Amparo a Pesquisa	Rio de Janeiro	Brazil	200.156.14.93	Rio de Janeiro	
AS7738 Telemar Norte Leste S.A.	Lavras	Brazil	200.149.215.73	Minas Gerais	37200
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Sao Jose	Brazil	200.140.151.148	Mato Grosso do Sul	79200
AS27924 Massy Communications Ltd	Port of Spain (Woodbrook)	Trinidad and Tobago	200.125.163.125	City of Port of Spain	
AS28080 Interredes S.A.	San Juan	Argentina	200.114.97.184	San Juan	5400
AS6147 Telefonica del Peru S.A.A.	Lima	Peru	200.106.7.218	Lima	
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Cuiabá	Brazil	200.103.40.231	Mato Grosso	
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Santa Rosa	Brazil	200.102.90.165	Rio Grande do Sul	
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Florianópolis	Brazil	200.101.219.33	Santa Catarina	
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Obidos	Portugal	2.82.111.84	Leiria	2510-145
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Tondela	Portugal	2.81.1.189	Viseu	3460-019
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Fernedo	Portugal	2.80.33.43	Aveiro	4540-380

AS5384 Emirates Telecommunications Corporation	Sharjah	United Arab Emirates	2.49.198.189	Ash Shariqah	
AS30722 Vodafone Italia S.p.A.	Turin	Italy	2.40.15.21	Piedmont	10125
AS12874 Fastweb	Bollate	Italy	2.238.33.210	Lombardy	20021
AS12874 Fastweb	Milan	Italy	2.235.118.153	Lombardy	20121
AS12874 Fastweb	Padua	Italy	2.234.229.217	Veneto	35127
AS12874 Fastweb	Basiglio	Italy	2.230.127.231	Lombardy	20080
AS5607 Sky UK Limited	Chertsey	United Kingdom	2.222.189.8	England	KT16
AS5607 Sky UK Limited	Glasgow	United Kingdom	2.221.236.136	Scotland	G42
AS5607 Sky UK Limited	Leicester	United Kingdom	2.220.9.14	England	LE1
AS5607 Sky UK Limited	Dagenham	United Kingdom	2.220.115.58	England	RM10
AS5607 Sky UK Limited	Liverpool	United Kingdom	2.219.234.123	England	L3
AS1267 Wind Telecomunicazioni SpA	Milan	Italy	2.21.167.176	Lombardy	
AS20940 Akamai International B.V.	London	United Kingdom	2.19.62.88	England	
AS58224 Iran Telecommunication Company PJS	Tabriz	Iran	2.186.160.100	East Azerbaijan	
AS48159 Telecommunication Infrastructure Company	Yasuj	Iran	2.184.189.35	Ostan-e Kohgiluyeh va Bowyer Ahmad	
AS12880 Information Technology Company (ITC)	Mashhad	Iran	2.180.3.110	Razavi Khorasan	
AS58224 Iran Telecommunication Company PJS	Arak	Iran	2.179.82.217	Markazi	
AS12880 Information Technology Company (ITC)	Karaj	Iran	2.179.16.76	Alborz	
AS20940 Akamai International B.V.	Amsterdam	Netherlands	2.17.226.31	North Holland	
AS12357 Vodafone Spain	Lleida	Spain	2.154.225.138	Catalonia	25005
AS6739 Vodafone Ono, S.A.	Azuqueca de Henares	Spain	2.153.38.18	Castille-La Mancha	19200
AS3352 Telefonica De Espana	Barcelona	Spain	2.143.5.22	Catalonia	08001
AS3352 Telefonica De Espana	Cáceres	Spain	2.139.168.93	Extremadura	10004
AS9198 JSC Kazakhtelecom	Almaty	Kazakhstan	2.132.61.76	Almaty Qalasy	
AS9198 JSC Kazakhtelecom	Karagandy	Kazakhstan	2.132.184.208	Qaraghandy Oblysy	

AS5607 Sky UK Limited	Brixton	United Kingdom	2.127.17.32	England	SW2
AS5607 Sky UK Limited	Southend-on-Sea	United Kingdom	2.124.82.88	England	SS0
AS5607 Sky UK Limited	Cardiff	United Kingdom	2.124.133.57	Wales	CF14
AS5607 Sky UK Limited	Merthyr Tydfil	United Kingdom	2.120.59.214	Wales	CF47
AS3269 Telecom Italia	Chieti	Italy	2.115.255.52	Abruzzo	66100
AS3292 Tele Danmark	Farevejle	Denmark	2.105.252.193	Zealand	4540
AS25961 Alyrica Networks Inc.	Lebanon	United States	199.58.102.28	Oregon	97355
AS19693 Centrilogic, Inc.	London	United Kingdom	199.43.201.164	England	EC2V
AS11045 Sterling Communications, Inc.	Lake Oswego	United States	199.34.233.49	Oregon	97035
AS7029 Windstream Communications LLC	Lancaster	United States	199.33.210.89	Kentucky	40444
AS11591 Caprio, Inc.	Anaheim	United States	199.30.188.130	California	92806
AS25847 ServInt	Reston	United States	199.223.211.49	Virginia	20191
AS600 OARnet	Columbus	United States	199.218.39.221	Ohio	43212
AS5645 TekSavvy Solutions, Inc.	Chatham	Canada	198.84.153.154	Ontario	N7M
AS18978 Enzu Inc	Los Angeles	United States	198.56.223.4	California	90017
AS18978 Enzu Inc	Los Angeles	United States	198.56.168.245	California	90017
AS8560 I&I Internet SE	Wayne	United States	198.251.64.200	Pennsylvania	19087
AS12148 Clemson University	Clemson	United States	198.21.200.2	South Carolina	29634
AS3130 RGnet, LLC	Bainbridge Island	United States	198.180.153.202	Washington	
AS46606 Unified Layer	Houston	United States	198.154.239.192	Texas	77092
AS11282 SERVERYOU INC	Fremont	United States	198.15.213.34	California	
AS55900 GLBB Japan KK	Chatan	Japan	198.144.135.203	Okinawa	904-0116
AS17195 James Tower Media Design	North Mankato	United States	198.12.19.194	Minnesota	
AS10474 OPTINET	Cape Town (Golf Course)	South Africa	197.94.186.68	Western Cape	
AS5438 Agence Tunisienne d'Internet	Tunis	Tunisia	197.6.242.139	Gouvernorat de Tunis	
AS5438 Agence Tunisienne d'Internet	Tunis	Tunisia	197.6.100.196	Gouvernorat de Tunis	
AS8452 TE-AS	Alexandria	Egypt	197.50.143.82	Alexandria	
AS11845 Vox-Telecom	Durban	South Africa	197.245.7.91	KwaZulu-Natal	3610
AS37223 VODACOM-	Maputo	Mozambique	197.235.193.103	Cidade de Maputo	
AS37315 CipherWave Storage Solutions (Pty) Ltd	Johannesburg	South Africa	197.234.188.156	Gauteng	2000
AS23889 MauritiusTelecom	Triolet	Mauritius	197.227.198.214	Pamplemousses District	

AS23889 MauritiusTelecom	Curepipe	Mauritius	197.227.187.34	Plaines Wilhems District	
AS23889 MauritiusTelecom	Port Louis	Mauritius	197.224.37.104	Port Louis District	
AS37140 zain-as	Accra (Osu Klottey)	Ghana	197.191.84.235	Greater Accra	
AS21042 Gulfsat Autonomous System	Antananarivo	Madagascar	197.158.101.51	Analamanga Region	
AS37703 ATLAX	Gabès	Tunisia	197.12.88.208	Gouvernorat de Gabes	
AS36903 MT-MPLS	Rabat	Morocco	196.75.1.208	Rabat-Sale-Kenitra	
AS327687 RENU	Kampala (Kawempe)	Uganda	196.43.167.209	Central Region	
AS33788 KANARTEL	Khartoum	Sudan	196.29.183.64	Khartoum	
AS36874 Cybersmart	Cape Town	South Africa	196.251.239.2	Western Cape	7945
AS5713 SAIX-NET	Durban	South Africa	196.25.63.86	KwaZulu-Natal	4001
AS3741 IS	Johannesburg	South Africa	196.214.53.161	Gauteng	2000
AS6713 Itissalat Al-MAGHRIB	Casablanca	Morocco	196.206.194.153	Casablanca-Settat	
AS19969 Joe's Datacenter, LLC	Kansas City	United States	196.18.178.35	Missouri	64121
AS174 Cogent Communications	Los Angeles	United States	196.17.29.61	California	90009
AS19969 Joe's Datacenter, LLC	Kansas City	United States	196.16.69.222	Missouri	64121
AS3741 IS	Cape Town	South Africa	196.14.82.115	Western Cape	8000
AS36925 Orange Maroc	Casablanca	Morocco	196.121.108.51	Region du Grand Casablanca	
AS36925 Orange Maroc	Rabat	Morocco	196.121.105.188	Rabat-Sale-Kenitra	
AS62135 Inspiring Networks BV	Sandton	South Africa	196.10.85.178	Gauteng	2172
AS37683 CRDB1-AS	Kampala	Uganda	196.10.139.94	Central Region	
AS3301 Telia Company AB	Falkenberg	Sweden	195.67.234.14	Halland	311 01
AS8359 MTS PJSC	Novogireyevo District	Russia	195.34.58.107	Moscow	
	Castelgrande	Italy	195.32.21.135	Basilicate	85050
AS8564 Raiffeisen OnLine GmbH	Mühlwald	Italy	195.254.237.82	Trentino-Alto Adige	39030
AS49839 MKS Ltd.	Ryazan	Russia	195.211.65.149	Ryazanskaya Oblast'	
AS8560 I&I Internet SE	Bonn	Germany	195.20.248.58	North Rhine-Westphalia	
AS1273 CW Vodafone Group PLC	Paris	France	195.2.7.93	Île-de-France	
AS559 SWITCH	Zurich	Switzerland	195.176.48.13	Zurich	
AS9121 Turk Telekom	Bursa	Turkey	195.174.110.241	Bursa	16320
AS2529 Now maintained by Cable & Wireless Worldwide	Edinburgh	United Kingdom	195.11.4.129	Scotland	
AS3215 Orange	Lille	France	195.101.219.154	Hauts-de-France	59000
AS19133 Bird Hosting Inc.	Luleå	Sweden	194.71.169.188	Norrbottn	

AS2529 Now maintained by Cable & Wireless Worldwide	London	United Kingdom	194.70.136.146	England	
AS6659 Nexinto GmbH	Hamburg (St. Georg, Hamburg)	Germany	194.64.227.93	Hamburg	
AS8248 Greek High-School Internet Network	Athens	Greece	194.63.166.208	Attica	
AS197498 VERBETA Ltd.	Moscow	Russia	194.6.221.61	Moscow	102128
AS8881 1&1 Versatel Deutschland GmbH	Pforzheim	Germany	194.42.109.5	Baden-Württemberg Region	75177
AS5626 Infocomunicacoes, S.A.	Lisbon	Portugal	194.38.152.78	Lisbon	
AS2119 Telenor Norge AS	Drammen	Norway	194.248.64.119	Buskerud	3040
AS6730 Sunrise Communications AG	Zurich	Switzerland	194.230.237.206	Zurich	8055
AS50946 Telecommunication Company 'Motel' Ltd.	Moscow	Russia	194.226.163.146	Moscow	102128
AS1241 Forthnet	Athens	Greece	194.219.245.208	Attica	
AS2200 Renater	Caen	France	194.214.6.9	Normandy	14000
AS3303 Swisscom (Switzerland) Ltd	Bruttisellen	Switzerland	194.209.90.163	Zurich	8306
AS2529 Now maintained by Cable & Wireless Worldwide	London (Finsbury Tower)	United Kingdom	194.159.240.244	England	
AS41959 PLJ TELECOM S.C. Pawel Kurpiewski, Anna Stec	Nadarzyn	Poland	194.126.229.165	Mazovia	05-830
AS15547 netplus.ch SA	Sierre	Switzerland	194.12.21.98	Valais	3960
AS5588 T-Mobile Czech Republic a.s.	Ostrava	Czechia	194.108.11.241	Moravskoslezsky kraj	702 00
AS1901 A1 Telekom Austria AG	Attersee	Austria	193.81.220.79	Upper Austria	4864
AS1901 A1 Telekom Austria AG	Vienna	Austria	193.81.138.51	Vienna	1030
AS1901 A1 Telekom Austria AG	Vienna	Austria	193.80.30.240	Vienna	1120
AS15404 COLT Technology Services Group Limited	Samstagern	Switzerland	193.47.140.147	Zurich	
AS3221 Hariduse Infotehnoloogia Sihtasutus	Tallinn	Estonia	193.40.238.31	Harjumaa	
AS16095 JAYNET A/S	Herlev	Denmark	193.242.155.57	Capital Region	
AS12886 LEW TelNet GmbH	Turkheim	Germany	193.23.148.165	Bavaria	86842
AS1955 KIFU (Governmental Info Tech Development Agency)	Komadi	Hungary	193.224.113.14	Hajdú-Bihar	4138
AS1759 Telia Finland Oyj	Helsinki	Finland	193.209.245.250	Uusimaa	

AS137 Consortium GARR	Trento	Italy	193.205.205.125	Trentino-Alto Adige	38100
AS137 Consortium GARR	Trento	Italy	193.205.194.23	Trentino-Alto Adige	38100
AS2108 Croatian Academic and Research Network	Dubrovnik	Croatia	193.198.21.216	Dubrovacko-Neretvanska Zupanija	20000
AS2119 Telenor Norge AS	Stabekk	Norway	193.161.50.206	Akershus	1321
AS3320 Deutsche Telekom AG	Rimpar	Germany	193.159.50.242	Bavaria	97222
AS50392 LLC Campus Networks	Rivne	Ukraine	193.106.146.237	Rivnens'ka Oblast'	23425
AS137 Consortium GARR	Milan	Italy	192.84.138.84	Lombardy	20162
AS53610 Metro Communications Company, Inc.	Chrisman	United States	192.35.203.254	Illinois	61924
AS36352 ColoCrossing	Buffalo	United States	192.3.18.249	New York	14202
AS19515 Oricom Internet	Lachine	Canada	192.247.13.20	Quebec	H8T
AS54290 Hostwinds LLC.	Tulsa	United States	192.236.228.62	Oklahoma	74103
AS15133 MCI Communications Services, Inc. d/b/a Verizon Business	Chicago	United States	192.229.163.58	Illinois	
AS1759 Telia Finland Oyj	Pieksämäki	Finland	192.194.199.25	Southern Savonia	76100
AS26496 GoDaddy.com, LLC	Scottsdale	United States	192.186.234.242	Arizona	85260
AS20013 CyrusOne LLC	Houston	United States	192.185.177.234	Texas	77092
AS21880 Zendesk, Inc.	San Francisco	United States	192.161.149.69	California	94103
AS3356 Level 3 Communications, Inc.	Scranton	United States	192.159.104.92	Pennsylvania	18509
AS36916 X-DSL Networking Solutions	Pretoria	South Africa	192.142.191.145	Gauteng	0081
AS36916 X-DSL Networking Solutions	Centurion	South Africa	192.142.143.214	Gauteng	
AS267462 Espaço Link Telecomunicações LTDA - ME	Guarulhos	Brazil	192.141.84.214	Sao Paulo	
AS46755 Columbia College	Columbia	United States	192.132.96.48	Missouri	65216
AS21766 BEN LOMAND RURAL TELEPHONE COOPERATIVE, INC.	Manchester	United States	192.131.57.62	Tennessee	37355
AS20868 ABB Schweiz AG	Ashburn	United States	192.125.70.114	Virginia	
AS20868 ABB Schweiz AG	Ashburn	United States	192.125.69.100	Virginia	
AS1680 013 NetVision Ltd	Haifa	Israel	192.115.200.103	Haifa	
AS8551 Bezeq International	Petah Tikva	Israel	192.115.104.205	Central District	
AS63446 Global Connections, Inc	Leawood	United States	192.111.253.29	Kansas	66211
AS3968 El Colegio de Mexico, A.C.	Mexico City	Mexico	192.100.175.248	Mexico City	63000
AS61440 Digital Energy Technologies Chile SpA	Las Vegas	United States	191.96.87.215	Nevada	89101

AS61440 Digital Energy Technologies Chile SpA	Denver	United States	191.96.85.133	Colorado	80216
AS26599 TELEFÔNICA BRASIL S.A	Sorocaba	Brazil	191.8.115.17	Sao Paulo	
AS263299 DEDICA BRASIL INTERNET LTDA	Luz	Brazil	191.6.231.59	Minas Gerais	35595
AS26615 Tim Celular S.A.	Suzano	Brazil	191.48.159.142	Sao Paulo	
AS263332 Netfi serviços de comunicações Ltda epp	São Paulo	Brazil	191.36.130.247	Sao Paulo	
AS18881 TELEFÔNICA BRASIL S.A	Sao Goncalo	Brazil	191.34.51.163	Rio de Janeiro	
AS263499 Telecom Conectividade	Cachoeiras de Macacu	Brazil	191.243.75.195	Rio de Janeiro	28680
AS263489 Velbras Provedor de Acesso as Redes de Comunicaçõe	Potirendaba	Brazil	191.243.12.104	Sao Paulo	15105
AS53142 Friburgo Online LTDA ME	Nova Friburgo	Brazil	191.240.244.214	Rio de Janeiro	
AS263042 DELTA TELECOMUNICACOES LTDA	Corbelia	Brazil	191.240.167.243	Parana	85420
AS53178 SCNet Equipamentos de Informática Ltda	Agua de Chapeco	Brazil	191.240.128.187	Santa Catarina	
AS26615 Tim Celular S.A.	São Paulo	Brazil	191.229.14.214	Sao Paulo	
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Dourados	Brazil	191.217.36.102	Mato Grosso do Sul	
AS26599 TELEFÔNICA BRASIL S.A	Paulinia	Brazil	191.196.113.177	Sao Paulo	
AS28573 CLARO S.A.	Indaiatuba	Brazil	191.184.153.67	Sao Paulo	
AS26615 Tim Celular S.A.	Salvador	Brazil	191.138.232.159	Bahia	
AS3816 COLOMBIA TELECOMUNICACIONES S.A. ESP	Bogotá (Teusaquillo)	Colombia	191.109.190.144	Bogota D.C.	
AS26599 TELEFÔNICA BRASIL S.A	São Paulo	Brazil	191.10.185.225	Sao Paulo	
AS27833 BVNET S.A.	Bahía Blanca	Argentina	190.97.59.247	Buenos Aires	8000
AS27947 Telconet S.A	Quito	Ecuador	190.95.131.98	Provincia de Pichincha	
AS14117 Telefonica del Sur S.A.	Valdivia	Chile	190.95.112.190	Region de Los Rios	
AS11081 United Telecommunication Services (UTS)	Willemstad	Curaçao	190.88.215.187		
AS8048 CANTV Servicios, Venezuela	Caracas	Venezuela	190.79.88.199	Capital	
AS11562 Net Uno, C.A.	Maracaibo	Venezuela	190.6.6.205	Zulia	
AS22927 Telefonica de Argentina	Esteban Echeverria	Argentina	190.51.238.190	Buenos Aires	1842

AS16592 ICOMSA S.A. de C.V.	San Salvador	El Salvador	190.5.130.34	Departamento de San Salvador	
AS22927 Telefonica de Argentina	Buenos Aires (Velez Sarsfield)	Argentina	190.48.85.151	Buenos Aires F.D.	
AS22927 Telefonica de Argentina	Buenos Aires (Velez Sarsfield)	Argentina	190.48.71.246	Buenos Aires F.D.	
AS22047 VTR BANDA ANCHA S.A.	Santiago	Chile	190.47.215.229	Santiago Metropolitan	
AS22047 VTR BANDA ANCHA S.A.	Santiago	Chile	190.47.17.212	Santiago Metropolitan	
AS22047 VTR BANDA ANCHA S.A.	Valparaíso	Chile	190.46.132.67	Region de Valparaiso	
AS22047 VTR BANDA ANCHA S.A.	Valparaíso	Chile	190.45.198.27	Region de Valparaiso	
AS6147 Telefonica del Peru S.A.A.	Lima	Peru	190.42.67.204	Lima	
AS6147 Telefonica del Peru S.A.A.	Lima	Peru	190.42.63.235	Lima	
AS6147 Telefonica del Peru S.A.A.	Jesús María	Peru	190.42.127.51	Lima region	
AS13489 EPM Telecomunicaciones S.A. E.S.P.	Medellín	Colombia	190.249.248.106	Antioquia	050001
AS13489 EPM Telecomunicaciones S.A. E.S.P.	Medellín	Colombia	190.249.161.238	Antioquia	050005
AS10318 CABLEVISION S.A.	Morón	Argentina	190.244.15.210	Buenos Aires	
AS6147 Telefonica del Peru S.A.A.	Lima	Peru	190.236.218.219	Lima	
AS6147 Telefonica del Peru S.A.A.	Lima	Peru	190.236.129.124	Provincia de Lima	
AS6147 Telefonica del Peru S.A.A.	Lima	Peru	190.235.178.89	Provincia de Lima	
AS3549 Level 3 Communications, Inc.	Bogotá	Colombia	190.216.159.102	Bogota D.C.	111311
AS18822 Manquehuenet	Santiago	Chile	190.215.252.157	Santiago Metropolitan	
AS14117 Telefonica del Sur S.A.	Concepción	Chile	190.211.13.235	Region del Biobio	
AS8048 CANTV Servicios, Venezuela	Valencia	Venezuela	190.204.234.9	Carabobo	
AS10481 Prima S.A.	Villa Angelica	Argentina	190.193.206.126	Entre Rios	2000
AS10481 Prima S.A.	Salta	Argentina	190.193.190.37	Salta	4400
AS10481 Prima S.A.	Chacabuco	Argentina	190.192.248.22	Buenos Aires	6740
AS20207 Gigared S.A.	Resistencia	Argentina	190.183.81.195	Chaco	3500
AS10318 CABLEVISION S.A.	Buenos Aires	Argentina	190.18.76.158	Buenos Aires F.D.	34034

AS22927 Telefonica de Argentina	Buenos Aires	Argentina	190.179.2.228	Buenos Aires F.D.	34034
AS22927 Telefonica de Argentina	Buenos Aires (Velez Sarsfield)	Argentina	190.174.178.148	Buenos Aires F.D.	
AS10318 CABLEVISION S.A.	Buenos Aires	Argentina	190.17.116.188	Buenos Aires F.D.	34034
AS6400 Compañía Dominicana de Teléfonos, C. por A. - CODETEL	Santo Domingo	Dominican Republic	190.167.202.166	Nacional	10206
AS22047 VTR BANDA ANCHA S.A.	Concepción	Chile	190.164.97.174	Region del Biobio	
AS22047 VTR BANDA ANCHA S.A.	Viña del Mar	Chile	190.162.198.82	Region de Valparaiso	
AS22047 VTR BANDA ANCHA S.A.	Santiago	Chile	190.161.235.71	Santiago Metropolitan	
AS14522 Satnet	Guayaquil	Ecuador	190.155.120.212	Provincia del Guayas	
AS27813 Teledifusora S.A.	Rosario	Argentina	190.151.160.242	Santa Fe	2000
AS27773 MILLICOM CABLE EL SALVADOR S.A. DE C.V.	La Union	El Salvador	190.150.81.49	Departamento de La Union	
AS27773 MILLICOM CABLE EL SALVADOR S.A. DE C.V.	San Vicente	El Salvador	190.150.131.165	Departamento de San Vicente	
AS27881 IPNEXT S.A.	Mercedes	Argentina	190.15.236.224	Buenos Aires	6600
AS7303 Telecom Argentina S.A.	Buenos Aires	Argentina	190.139.43.155	Buenos Aires F.D.	
AS7303 Telecom Argentina S.A.	Buenos Aires	Argentina	190.139.155.177	Buenos Aires F.D.	
AS52260 Télécommunications de Haïti (Teleco)	Port-au-Prince	Haiti	190.115.189.235	Departement de l'Ouest	
AS52260 Télécommunications de Haïti (Teleco)	Port-au-Prince	Haiti	190.115.167.34	Departement de l'Ouest	
AS27923 TEVISAT, S.A.	La Ceiba	Honduras	190.11.228.52	Departamento de Atlantida	
AS26599 TELEFÔNICA BRASIL S.A	Juquitiba	Brazil	189.97.179.82	Sao Paulo	
AS28362 Onda Internet	Sacramento	Brazil	189.84.7.253	Minas Gerais	38190
AS28670 REDEL SERVIÇOS DE TELECOMUNICAÇÕES LTDA	Balneário Camboriú	Brazil	189.8.106.154	Santa Catarina	88330
AS22689 Sercomtel Participações S.A.	Londrina	Brazil	189.76.55.61	Parana	
AS28333 Local Datacenter Soluções em Comunicação Ltda.	Rio de Janeiro	Brazil	189.50.203.220	Rio de Janeiro	
AS27699 TELEFÔNICA BRASIL S.A	Sao Jose do Rio Preto	Brazil	189.47.216.122	Sao Paulo	

AS28338 Net Botanic Internet Inteligente Ltda	Rio de Janeiro	Brazil	189.45.15.22	Rio de Janeiro	
AS26615 Tim Celular S.A.	São Paulo	Brazil	189.40.38.164	Sao Paulo	
AS28305 LGTEL61 INTERNET LTDA - ME	Londrina	Brazil	189.39.99.65	Parana	
AS28310 SMART TELECOMUNICAÇÕES E SERVIÇOS EIRELLI EPP	Recife	Brazil	189.39.120.77	Pernambuco	
AS28309 WGO Telecomunicações Ltda	Catalao	Brazil	189.38.43.30	Goiias	
AS28573 CLARO S.A.	Florianópolis	Brazil	189.34.18.116	Santa Catarina	
AS8151 Uninet S.A. de C.V.	León	Mexico	189.253.73.187	Guanajuato	37500
AS8151 Uninet S.A. de C.V.	León	Mexico	189.253.123.28	Guanajuato	37500
AS8151 Uninet S.A. de C.V.	Colonia Benito Juarez	Mexico	189.252.122.65	Chihuahua	33633
AS8151 Uninet S.A. de C.V.	Metepec	Mexico	189.251.224.41	Estado de Mexico	52172
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.249.254.61	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.249.149.69	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.249.141.66	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.249.124.153	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Torreón	Mexico	189.248.3.9	Coahuila	27105
AS8151 Uninet S.A. de C.V.	Monclova	Mexico	189.248.220.147	Coahuila	25790
	Adolfo Lopez Mateos	Mexico	189.245.213.23	Estado de Mexico	52920
AS8151 Uninet S.A. de C.V.	Morelia	Mexico	189.243.211.174	Michoacán	58000
AS8151 Uninet S.A. de C.V.	Ixtapaluca	Mexico	189.242.97.112	Estado de Mexico	56530
AS8151 Uninet S.A. de C.V.	Ixtapaluca	Mexico	189.242.196.131	Estado de Mexico	56538
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.242.176.72	Mexico City	56530
AS8151 Uninet S.A. de C.V.	Ixtapaluca	Mexico	189.242.129.207	Estado de Mexico	56576
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.241.213.40	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.239.189.72	Mexico City	13420
AS8151 Uninet S.A. de C.V.	Mexico City (Manantial Peña Pobre)	Mexico	189.236.238.103	Mexico City	

AS8151 Uninet S.A. de C.V.	Mexico City (Manantial Peña Pobre)	Mexico	189.232.57.52	Mexico City	
	Mexico City	Mexico	189.230.68.222	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Colima	Mexico	189.229.205.250	Colima	28078
AS8151 Uninet S.A. de C.V.	Ensenada	Mexico	189.223.232.97	Estado de Baja California	22819
AS8151 Uninet S.A. de C.V.	Mexicali	Mexico	189.222.98.62	Estado de Baja California	21396
AS8151 Uninet S.A. de C.V.	Ensenada	Mexico	189.222.145.62	Estado de Baja California	22819
AS28509 Cablemas Telecomunicaciones SA de CV	Mexico City	Mexico	189.214.229.64	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Toluca	Mexico	189.189.98.74	Estado de Mexico	50071
AS8151 Uninet S.A. de C.V.	Culiacán	Mexico	189.186.15.209	Sinaloa	80180
AS8151 Uninet S.A. de C.V.	Guadalajara	Mexico	189.182.71.70	Jalisco	44900
AS8151 Uninet S.A. de C.V.	Guadalajara	Mexico	189.182.56.185	Jalisco	44110
AS8151 Uninet S.A. de C.V.	Querétaro City	Mexico	189.180.228.122	Querétaro	76120
AS8151 Uninet S.A. de C.V.	Querétaro City	Mexico	189.180.117.49	Querétaro	76179
AS8151 Uninet S.A. de C.V.	Querétaro City	Mexico	189.180.108.145	Querétaro	76120
AS8151 Uninet S.A. de C.V.	Cabo San Lucas	Mexico	189.176.58.237	Baja California Sur	23450
AS8151 Uninet S.A. de C.V.	Zumpango	Mexico	189.171.148.178	Estado de Mexico	55646
AS8151 Uninet S.A. de C.V.	Ciudad Obregón	Mexico	189.171.113.28	Sonora	85160
AS8151 Uninet S.A. de C.V.	Cabo San Lucas	Mexico	189.170.197.155	Baja California Sur	23470
AS8151 Uninet S.A. de C.V.	Tlaxcala City	Mexico	189.167.177.56	Tlaxcala	90100
AS8151 Uninet S.A. de C.V.	Guadalajara	Mexico	189.166.202.33	Jalisco	45020
AS8151 Uninet S.A. de C.V.	Puebla City	Mexico	189.165.44.25	Puebla	72270
AS8151 Uninet S.A. de C.V.	Puebla City	Mexico	189.165.114.170	Puebla	72270
AS8151 Uninet S.A. de C.V.	Guadalajara	Mexico	189.163.197.64	Jalisco	45019
AS8151 Uninet S.A. de C.V.	Puebla City	Mexico	189.161.14.12	Puebla	72550

AS8151 Uninet S.A. de C.V.	Monclova	Mexico	189.156.163.33	Coahuila	25700
AS8151 Uninet S.A. de C.V.	Durango	Mexico	189.155.123.11	Durango	34250
AS8151 Uninet S.A. de C.V.	Monclova	Mexico	189.155.107.89	Coahuila	25790
AS8151 Uninet S.A. de C.V.	Guadalupe	Mexico	189.154.152.244	Nuevo León	67192
AS8151 Uninet S.A. de C.V.	Monterrey	Mexico	189.153.242.81	Nuevo León	64340
AS8151 Uninet S.A. de C.V.	Mérida	Mexico	189.150.44.81	Yucatán	97203
AS53006 ALGAR TELECOM S/A	Uberlândia	Brazil	189.15.110.71	Minas Gerais	
AS8151 Uninet S.A. de C.V.	Villahermosa	Mexico	189.148.165.29	Tabasco	86030
AS8151 Uninet S.A. de C.V.	Garza Garcia	Mexico	189.145.42.194	Nuevo León	66210
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.144.41.99	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Pachuca	Mexico	189.142.79.217	Hidalgo	42184
AS8151 Uninet S.A. de C.V.	Pachuca	Mexico	189.142.58.4	Hidalgo	42184
	Actopan	Mexico	189.140.77.147	Hidalgo	42500
AS8151 Uninet S.A. de C.V.	Cuautitlán Izcalli	Mexico	189.139.17.43	Estado de Mexico	54740
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.130.43.128	Mexico City	63000
AS28649 Desktop Sigmanet Comunicação Multimídia Ltda	Paulínia	Brazil	189.124.71.237	Sao Paulo	
AS28573 CLARO S.A.	São Paulo	Brazil	189.121.93.82	Sao Paulo	
AS7738 Telemar Norte Leste S.A.	Sao Goncalo	Brazil	189.106.30.11	Rio de Janeiro	
AS7738 Telemar Norte Leste S.A.	Niterói	Brazil	189.106.165.243	Rio de Janeiro	
AS28573 CLARO S.A.	São Paulo	Brazil	189.102.217.106	Sao Paulo	
AS3209 Vodafone GmbH	Karlsruhe	Germany	188.98.169.135	Baden-Württemberg Region	76199
AS3209 Vodafone GmbH	Rüsselsheim am Main	Germany	188.97.189.62	Hesse	65428
AS3269 Telecom Italia	Lomello	Italy	188.9.88.225	Lombardy	27034
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Coja	Portugal	188.82.247.78	Coimbra	3305-090
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Guarda	Portugal	188.82.203.151	Guarda	6300-000

AS12715 Orange Espagne S.A.U.	Alcorcón	Spain	188.78.9.12	Madrid	28921
AS12715 Orange Espagne S.A.U.	Andujar	Spain	188.76.128.177	Andalusia	23740
AS16285 Closed Joint Stock Company TransTeleCom	Tobol'sk	Russia	188.68.155.4	Tyumenskaya Oblast'	626150
AS3303 Swisscom (Switzerland) Ltd	Lostorf	Switzerland	188.63.89.22	Solothurn	4654
AS3303 Swisscom (Switzerland) Ltd	Basel	Switzerland	188.63.36.189	Basel-City	4054
AS3303 Swisscom (Switzerland) Ltd	Oberglatt	Switzerland	188.61.254.4	Zurich	8154
AS3303 Swisscom (Switzerland) Ltd	Lausanne	Switzerland	188.61.21.143	Vaud	1018
AS25019 Saudi Telecom Company JSC	Jeddah	Saudi Arabia	188.52.161.41	Makkah Province	
AS44216 Coditel Brabant SPRL/BVBA	Brussels	Belgium	188.44.69.227	Brussels Capital	1080
AS42610 PJSC Rostelecom	Moscow	Russia	188.32.61.196	Moscow	115612
AS8708 RCS & RDS	Bucharest	Romania	188.25.244.36	Bucuresti	050019
AS8708 RCS & RDS	Bucharest	Romania	188.25.212.211	Bucuresti	050019
AS8708 RCS & RDS	Bucharest	Romania	188.25.156.27	Bucuresti	050019
AS1759 Telia Finland Oyj	Helsinki	Finland	188.238.158.225	Uusimaa	
AS1759 Telia Finland Oyj	Helsinki	Finland	188.238.139.73	Uusimaa	
AS39435 JSC ER-Telecom Holding	Volgograd	Russia	188.233.55.7	Volgogradskaya Oblast'	
AS39435 JSC ER-Telecom Holding	Volzhskiy	Russia	188.233.153.223	Volgogradskaya Oblast'	404100
AS50543 JSC ER-Telecom Holding	Saratov	Russia	188.232.8.245	Saratovskaya Oblast'	410960
AS34779 T-2, d.o.o.	Kranj	Slovenia	188.230.178.254	Kranj	4000
AS5607 Sky UK Limited	Leeds	United Kingdom	188.222.17.81	England	LS12
AS5607 Sky UK Limited	Peterborough	United Kingdom	188.221.92.90	England	PE1
AS31334 Vodafone Kabel Deutschland GmbH	Fürth	Germany	188.194.220.232	Bavaria	90762
AS31334 Vodafone Kabel Deutschland GmbH	Neufahrn bei Freising	Germany	188.193.154.33	Bavaria	85375
AS56370 INTTEL Ltd.	Donetsk	Ukraine	188.190.21.198	Donets'ka Oblast'	
AS56370 INTTEL Ltd.	Donetsk	Ukraine	188.190.14.138	Donets'ka Oblast'	
AS51570 JSC ER-Telecom Holding	St Petersburg	Russia	188.187.35.235	St.-Petersburg	190817
AS3292 Tele Danmark	Vemmelev	Denmark	188.182.181.110	Zealand	4241
AS3292 Tele Danmark	Søborg	Denmark	188.179.56.74	Capital Region	
AS3292 Tele Danmark	Røddekro	Denmark	188.178.9.75	South Denmark	6230

AS16246 RIO Media a.s.	Moravska Trebova	Czechia	188.175.156.177	Pardubicky kraj	571 01
AS14061 DigitalOcean, LLC	Singapore	Singapore	188.166.248.29	Central Singapore Community Development Council	
AS35632 Iris 64	Pau	France	188.141.243.215	Nouvelle-Aquitaine	64000
AS12389 PJSC Rostelecom	Voronezh	Russia	188.128.66.49	Voronezhskaya Oblast'	
AS12389 PJSC Rostelecom	Rostov-on-Don	Russia	188.114.19.248	Rostov	344002
AS12389 PJSC Rostelecom	Kursk	Russia	188.113.30.120	Kurskaya Oblast'	305000
AS12389 PJSC Rostelecom	Kursk	Russia	188.113.0.110	Kurskaya Oblast'	305016
AS3209 Vodafone GmbH	Lorch	Germany	188.105.195.52	Baden-Württemberg Region	73547
AS3209 Vodafone GmbH	Dresden	Germany	188.104.238.232	Saxony	01189
AS3209 Vodafone GmbH	Munich	Germany	188.104.121.173	Bavaria	80796
AS3209 Vodafone GmbH	Berlin	Germany	188.103.104.49	Land Berlin	12529
AS3209 Vodafone GmbH	Berlin	Germany	188.102.119.75	Land Berlin	12529
AS3209 Vodafone GmbH	Berlin	Germany	188.102.116.195	Land Berlin	12529
AS3209 Vodafone GmbH	Dortmund	Germany	188.100.83.194	North Rhine-Westphalia	44139
AS3209 Vodafone GmbH	Herne	Germany	188.100.156.43	North Rhine-Westphalia	44653
AS53068 Tribo Comunicações	São Paulo	Brazil	187.86.174.223	Sao Paulo	
AS28161 Piernet Telecom	Itamaraca	Brazil	187.84.67.205	Pernambuco	53900
AS27699 TELEFÔNICA BRASIL S.A	São Paulo	Brazil	187.74.238.238	Sao Paulo	
AS27699 TELEFÔNICA BRASIL S.A	São Paulo	Brazil	187.74.194.10	Sao Paulo	
AS27699 TELEFÔNICA BRASIL S.A	Santos	Brazil	187.74.157.165	Sao Paulo	
AS22085 Claro S/A	São Paulo	Brazil	187.71.46.144	Sao Paulo	
AS28573 CLARO S.A.	Rio de Janeiro	Brazil	187.67.25.151	Rio de Janeiro	
AS262662 Conexao Networks Provedor de Internet	Bariri	Brazil	187.62.180.92	Sao Paulo	17250
AS27699 TELEFÔNICA BRASIL S.A	Campinas	Brazil	187.56.56.140	Sao Paulo	
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Blumenau	Brazil	187.52.161.191	Santa Catarina	
AS28573 CLARO S.A.	São Paulo	Brazil	187.37.247.63	Sao Paulo	
AS27699 TELEFÔNICA BRASIL S.A	São Paulo	Brazil	187.35.55.24	Sao Paulo	
AS27699 TELEFÔNICA BRASIL S.A	Tiete	Brazil	187.34.74.136	Sao Paulo	
AS28573 CLARO S.A.	Guarulhos	Brazil	187.255.88.209	Sao Paulo	
AS28573 CLARO S.A.	Guarulhos	Brazil	187.255.119.232	Sao Paulo	
AS8151 Uninet S.A. de C.V.	Ciudad Nicolás Romero	Mexico	187.236.201.171	Estado de Mexico	54407

AS8151 Uninet S.A. de C.V.	Puebla City	Mexico	187.235.94.10	Puebla	72470
AS8151 Uninet S.A. de C.V.	Puebla City	Mexico	187.235.122.73	Puebla	72270
AS8151 Uninet S.A. de C.V.	Cuernavaca	Mexico	187.225.160.237	Morelos	62028
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	187.223.197.11	Mexico City	63000
AS8151 Uninet S.A. de C.V.	San Salvador Atenco	Mexico	187.221.133.107	Estado de Mexico	56208
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	187.221.119.220	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	187.214.135.21	Mexico City	63000
AS8151 Uninet S.A. de C.V.	León	Mexico	187.211.37.138	Guanajuato	37500
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	187.207.71.193	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Tlalpexco	Mexico	187.206.57.83	Mexico City	54054
AS8151 Uninet S.A. de C.V.	Tototlan	Mexico	187.205.9.143	Jalisco	47730
AS8151 Uninet S.A. de C.V.	San Miguel el Alto	Mexico	187.205.100.115	Jalisco	47140
AS8151 Uninet S.A. de C.V.	Iztapalapa	Mexico	187.199.5.184	Mexico City	09500
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	187.199.19.216	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	187.199.144.2	Mexico City	63000
	Acapulco de Juárez	Mexico	187.198.200.109	Guerrero	39530
AS8151 Uninet S.A. de C.V.	Irapuato	Mexico	187.193.39.77	Guanajuato	36670
AS28573 CLARO S.A.	Americana	Brazil	187.183.49.15	Sao Paulo	
AS28123 Actual Network Internet Ltda	Sao Jose	Brazil	187.18.33.121	Santa Catarina	
AS8151 Uninet S.A. de C.V.	Morelia	Mexico	187.173.197.203	Michoacán	58230
AS8151 Uninet S.A. de C.V.	Tuxtla Gutiérrez	Mexico	187.171.183.248	Chiapas	29060
AS28263 Ensate Brasil Telecomunicações Ltda - ME	Birigui	Brazil	187.17.165.214	Sao Paulo	16200
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	187.169.235.109	Mexico City	63000
AS6503 Axtel, S.A.B. de C.V.	Monterrey	Mexico	187.162.236.124	Nuevo León	64720
AS8151 Uninet S.A. de C.V.	Tulancingo	Mexico	187.159.45.215	Hidalgo	43600

AS8151 Uninet S.A. de C.V.	Oaxaca City	Mexico	187.154.87.143	Oaxaca	68025
AS8151 Uninet S.A. de C.V.	Jilotepec de Molina Enriquez	Mexico	187.151.86.212	Estado de Mexico	54240
AS8151 Uninet S.A. de C.V.	Cancún	Mexico	187.150.158.84	Quintana Roo	77500
AS8151 Uninet S.A. de C.V.	La Paz	Mexico	187.149.25.81	Baja California Sur	23029
AS8151 Uninet S.A. de C.V.	Cancún	Mexico	187.147.249.80	Quintana Roo	77500
AS8151 Uninet S.A. de C.V.	Tierra Blanca	Mexico	187.146.56.118	Veracruz	95170
AS8151 Uninet S.A. de C.V.	Tierra Blanca	Mexico	187.146.47.32	Veracruz	95170
AS8151 Uninet S.A. de C.V.	Querétaro City	Mexico	187.145.66.243	Querétaro	76120
AS8151 Uninet S.A. de C.V.	Querétaro City	Mexico	187.145.50.56	Querétaro	76120
AS8151 Uninet S.A. de C.V.	Colima	Mexico	187.144.37.168	Colima	28078
AS8151 Uninet S.A. de C.V.	Guadalajara	Mexico	187.139.145.95	Jalisco	44110
AS8151 Uninet S.A. de C.V.	Guadalajara	Mexico	187.139.126.93	Jalisco	44110
AS8151 Uninet S.A. de C.V.	San Luis Potosí City	Mexico	187.137.245.107	San Luis Potosí	78230
AS8151 Uninet S.A. de C.V.	Mérida	Mexico	187.136.47.120	Yucatán	97120
AS8151 Uninet S.A. de C.V.	Zacatecas City	Mexico	187.133.81.89	Zacatecas	98057
AS8151 Uninet S.A. de C.V.	Zacatecas City	Mexico	187.133.231.55	Zacatecas	98064
AS28573 CLARO S.A.	Campos dos Goytacazes	Brazil	187.105.201.50	Rio de Janeiro	
AS28573 CLARO S.A.	Brusque	Brazil	187.105.191.102	Santa Catarina	88350
AS53094 Guanhaes Internet LTDA-ME	Guanhaes	Brazil	187.102.22.52	Minas Gerais	39740
AS28276 Mikrocenter Informática Ltda.	Mossoro	Brazil	187.102.107.175	Rio Grande do Norte	
AS8048 CANTV Servicios, Venezuela	Cagua	Venezuela	186.92.129.80	Aragua	
AS10620 Telmex Colombia S.A.	Bogotá (Chapinero)	Colombia	186.87.41.33	Bogota D.C.	
AS10620 Telmex Colombia S.A.	Coronado	Colombia	186.84.219.148	Departamento del Valle del Cauca	763531
AS10620 Telmex Colombia S.A.	Bucaramanga	Colombia	186.83.167.122	Departamento de Santander	680001
AS10620 Telmex Colombia S.A.	Bogotá (Chapinero)	Colombia	186.83.164.119	Bogota D.C.	

AS10620 Telmex Colombia S.A.	Manizales	Colombia	186.82.54.61	Departamento de Caldas	170002
AS10620 Telmex Colombia S.A.	Bogotá	Colombia	186.82.166.30	Bogota D.C.	111211
AS6400 Compañía Dominicana de Teléfonos, C. por A. - CODETEL	Santo Domingo	Dominican Republic	186.7.109.17	Nacional	10206
AS14522 Satnet	Guayaquil	Ecuador	186.68.156.112	Provincia del Guayas	
AS27651 ENTEL CHILE S.A.	La Serena	Chile	186.67.239.233	Coquimbo	
AS14522 Satnet	Cuenca	Ecuador	186.66.171.211	Provincia del Azuay	
AS6057 Administracion Nacional de Telecomunicaciones	Montevideo	Uruguay	186.54.45.198	Departamento de Montevideo	11700
AS27947 Telconet S.A	Quito	Ecuador	186.4.150.172	Provincia de Pichincha	
AS262825 JL INFORMATICA LTDA	Inhapim	Brazil	186.251.44.206	Minas Gerais	35330
AS264141 Vale do Ribeira Internet Ltda - Me	Curitiba	Brazil	186.250.97.199	Parana	
AS55259 Neutrona Networks International LLC	Buenos Aires	Argentina	186.250.154.33	Buenos Aires F.D.	34034
AS7738 Telemar Norte Leste S.A.	Sao Goncalo	Brazil	186.240.172.136	Rio de Janeiro	
AS22689 Sercomtel Participações S.A.	Londrina	Brazil	186.236.155.190	Parana	
AS262725 RG SILVEIRA LTDA	Manhuacu	Brazil	186.235.73.137	Minas Gerais	36900
AS53173 ARENANET TEL COM E SERV EM INF LTDA	Morada Nova	Brazil	186.225.89.155	Ceara	62940
AS26615 Tim Celular S.A.	São Paulo	Brazil	186.197.72.128	Sao Paulo	
AS53148 LUIS FELIPE VIDAL LOURENÇO-ME	Atibaia	Brazil	186.195.234.125	Sao Paulo	
AS262737 GWT Internet	Guanhaes	Brazil	186.195.135.104	Minas Gerais	39740
AS262748 NetJat Proveedor de Acceso a Internet	Canguaretama	Brazil	186.192.17.109	Rio Grande do Norte	59190
AS28011 CORPORACION NACIONAL DE TELECOMUNICACIONES - CNT EP	Portoviejo	Ecuador	186.178.184.60	Provincia de Manabi	
AS3816 COLOMBIA TELECOMUNICACIONES S.A. ESP	Bogotá (Teusaquillo)	Colombia	186.170.41.138	Bogota D.C.	
AS3816 COLOMBIA TELECOMUNICACIONES S.A. ESP	Barranquilla	Colombia	186.170.227.83	Atlántico	
AS23201 Telecel S.A.	San Lorenzo (Villa Laurelty)	Paraguay	186.16.224.143	Central	
AS23201 Telecel S.A.	Asunción	Paraguay	186.16.1.87	Asuncion	

AS14754 Telgua	Guatemala City	Guatemala	186.151.248.218	Departamento de Guatemala	01001
AS10620 Telmex Colombia S.A.	Bogotá (Chapinero)	Colombia	186.147.120.106	Bogota D.C.	
AS10620 Telmex Colombia S.A.	Valledupar	Colombia	186.144.124.207	Departamento del Cesar	200001
AS21826 Corporación Telemic C.A.	Barquisimeto	Venezuela	186.14.245.128	Lara	
AS10318 CABLEVISION S.A.	Neuquén	Argentina	186.139.246.137	Neuquen	8300
AS10318 CABLEVISION S.A.	Canuelas	Argentina	186.139.204.157	Buenos Aires	1814
AS10318 CABLEVISION S.A.	Buenos Aires	Argentina	186.137.72.238	Buenos Aires F.D.	34034
AS10318 CABLEVISION S.A.	Mar del Plata	Argentina	186.136.86.5	Buenos Aires	7600
AS10318 CABLEVISION S.A.	Buenos Aires	Argentina	186.136.82.223	Buenos Aires F.D.	34034
AS10318 CABLEVISION S.A.	Buenos Aires	Argentina	186.136.2.152	Buenos Aires F.D.	1651
AS3816 COLOMBIA TELECOMUNICACIONES S.A. ESP	Bogotá (Teusaquillo)	Colombia	186.115.150.43	Bogota D.C.	
AS201100 LLC Demo-Club	Moscow	Russia	185.85.217.249	Moscow	102128
AS20655 e-Style ISP LLC	Moscow	Russia	185.81.174.117	Moscow	
AS61380 CJSC Enginet+	Ivanteyevka	Russia	185.8.156.65	Moscow Oblast	141282
AS203986 schnell-im-netz.de GmbH & Co.KG	Schweinfurt	Germany	185.78.176.71	Bavaria	97421
AS59803 CC Engineering Ltd	London	United Kingdom	185.70.240.33	England	EC2V
AS59815 TRK Metro LLC	Donetsk	Ukraine	185.70.131.74	Donets'ka Oblast'	
AS59870 Bold Horizons (PTY) LTD	London	United Kingdom	185.68.84.96	England	
AS201997 MCOM-NET s.r.o.	Giraltovce	Slovakia	185.59.184.134	Presov	087 01
AS51698 Activehost RU Ltd.	Moscow	Russia	185.47.154.130	Moscow	
AS47292 Athena IT-Group A/S	Odense (Odense M)	Denmark	185.45.51.100	South Denmark	
AS31027 Nianet A/S	Ringkøbing	Denmark	185.45.149.19	Central Jutland	6950
AS49984 Telekomunikatsiina Companiya Ltd	Lviv	Ukraine	185.42.129.72	L'vivs'ka Oblast'	79025
AS49223 Everest Broadcasting Company Ltd	Vinnytsia	Ukraine	185.39.72.59	Vinnyts'ka Oblast'	21004
AS200924 Stiegeler Internet Service GmbH	Bad Krozingen	Germany	185.37.251.182	Baden-Württemberg Region	79189

AS41297 Adam Dlugosz abaks	Paris	France	185.241.199.238	Île-de-France	
AS60641 Hexatel SAS	Panazol	France	185.24.157.199	Nouvelle-Aquitaine	87350
AS201453 Nostravant S.L.L.	Paris	France	185.228.119.140	Île-de-France	
AS206481 Anmaguzcer Telecomunicaciones S.L.U	Granada	Spain	185.219.121.15	Andalusia	18270
AS15817 Mittwald CM Service GmbH und Co.KG	Paris	France	185.215.156.59	Île-de-France	
AS49979 LA Wireless Srl	Cartiera-Vidardino	Italy	185.208.191.90	Lombardy	
AS200553 Interfibra S.R.L.	Campobasso	Italy	185.202.131.253	Molise	86100
AS9009 M247 Ltd	Singapore	Singapore	185.200.117.16	Central Singapore Community Development Council	
AS199361 City Connect LLC	Moscow	Russia	185.20.77.103	Moscow	102128
AS34119 Wildcard UK Limited	Newcastle upon Tyne	United Kingdom	185.2.170.225	England	
AS41922 MIS70 LTD	Bansko	Bulgaria	185.189.199.212	Blagoevgrad	2770
AS29119 ServiHosting Networks S.L.	Cartaya	Spain	185.188.8.228	Andalusia	21450
AS206431 CaribeMico S.L	Villaverde del Rio	Spain	185.186.183.1	Andalusia	41318
AS44167 Webcraft Found LLC	Kiev	Ukraine	185.179.13.63	Kyiv City	
AS60203 Innovaciones Tecnicas del Sur S.L.	Villacarrillo	Spain	185.172.61.253	Andalusia	23300
AS60458 Xstudio Networks S.L.U	Ponferrada	Spain	185.164.102.147	Castille and León	24400
AS61317 Digital Energy Technologies Limited	Frankfurt am Main	Germany	185.158.123.24	Hesse	
AS202676 Priinet Comunicaciones Sl	Ayamonte	Spain	185.156.251.33	Andalusia	21400
AS12716 Mobitel Ead	Sofia	Bulgaria	185.151.159.161	Sofia-Capital	1000
AS51151 Comunicaciones Enersol, S.L.	Jijona	Spain	185.151.111.204	Valencia	03100
AS203061 IT Proximus, UAB	Rome	Italy	185.145.219.7	Latium	00134
AS203057 Airangel Limited	Southampton	United Kingdom	185.144.242.51	England	SO14
AS203193 Clouded Domain and Web Services LTD	Skopje	Macedonia	185.143.7.62	Opstina Karpos	
AS207143 hosttech GmbH	Bern	Switzerland	185.142.213.31	Bern	
AS48147 Tahlilgran Karbin Ertebat Parsa Co. Ltd.	Qom	Iran	185.142.157.45	Qom	
AS35444 ADA Holding - ADA AIR sh.p.k.	Tirana	Albania	185.132.95.27	Qarku i Tiranës	
AS204139 Next Global Services L.p.	Brighton	United Kingdom	185.113.180.11	England	

AS34477 NetMan Network Management and IT Services GmbH	Vienna	Austria	185.106.51.51	Vienna	1060
AS49312 Message Solution GmbH	Marburg	Germany	185.102.58.199	Hesse	
AS33363 BRIGHT HOUSE NETWORKS, LLC	Ormond Beach	United States	184.90.39.241	Florida	32174
AS3257 GTT Communications Inc.	Cambridge	United States	184.86.210.30	Massachusetts	02142
AS2828 MCI Communications Services, Inc. d/b/a Verizon Business	Cambridge	United States	184.86.122.8	Massachusetts	02142
AS4181 TDS TELECOM	Madison	United States	184.60.38.123	Wisconsin	53711
AS10796 Time Warner Cable Internet LLC	Chardon	United States	184.59.133.7	Ohio	44024
AS10796 Time Warner Cable Internet LLC	Dayton	United States	184.59.102.136	Ohio	45414
AS10796 Time Warner Cable Internet LLC	Cuyahoga Falls	United States	184.56.82.201	Ohio	44223
AS10796 Time Warner Cable Internet LLC	Chardon	United States	184.56.54.226	Ohio	44024
AS10796 Time Warner Cable Internet LLC	Cuyahoga Falls	United States	184.56.210.244	Ohio	44221
AS1273 CW Vodafone Group PLC	Cambridge	United States	184.51.163.142	Massachusetts	02142
AS209 Qwest Communications Company, LLC	Leesburg	United States	184.4.139.59	Florida	34748
AS209 Qwest Communications Company, LLC	Ocala	United States	184.4.136.108	Florida	34472
AS5511 Orange	Cambridge	United States	184.31.6.7	Massachusetts	02142
AS1299 Telia Company AB	Cambridge	United States	184.31.230.17	Massachusetts	02142
AS209 Qwest Communications Company, LLC	Clayton	United States	184.3.150.43	North Carolina	27520
AS16625 Akamai Technologies, Inc.	Cambridge	United States	184.24.117.163	Massachusetts	02142
AS5650 Frontier Communications of America, Inc.	Fort Wayne	United States	184.18.27.244	Indiana	46835
AS22773 Cox Communications Inc.	Atlanta	United States	184.178.88.102	Georgia	30319
AS22773 Cox Communications Inc.	Omaha	United States	184.178.40.160	Nebraska	68157
AS22773 Cox Communications Inc.	Hampton	United States	184.178.150.110	Virginia	23669
AS46261 QuickPacket, LLC	Beijing	China	184.174.7.112	Beijing	

AS5769 Videotron Telecom Ltee	Montreal	Canada	184.160.148.208	Quebec	H1R
AS209 Qwest Communications Company, LLC	Gig Harbor	United States	184.157.251.244	Washington	98332
AS577 Bell Canada	Deux-Montagnes	Canada	184.145.200.28	Quebec	J7R
AS209 Qwest Communications Company, LLC	Rocky Mount	United States	184.0.221.140	Virginia	24151
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	183.98.51.188	Gyeonggi-do	
AS4766 Korea Telecom	Namyangju	Republic of Korea	183.97.31.139	Gyeonggi-do	
AS4837 CHINA UNICOM China169 Backbone	Wuhan	China	183.95.11.55	Hubei	
AS4837 CHINA UNICOM China169 Backbone	Wuhan	China	183.94.201.163	Hubei	
AS4837 CHINA UNICOM China169 Backbone	Huangshi	China	183.92.205.36	Hunan	
AS4134 No.31,Jin-rong Street	Guangzhou	China	183.8.118.162	Guangdong	
AS9698 CJ Hello Co., Ltd.	Gangneung (Gangneung-daero)	Republic of Korea	183.78.210.65	Gangwon-do	
AS4134 No.31,Jin-rong Street	Chongqing	China	183.70.220.172	Chongqing	
AS4134 No.31,Jin-rong Street	Shantou	China	183.7.138.167	Guangdong	
AS4134 No.31,Jin-rong Street	Shanweicun	China	183.58.71.26	Guangdong	
AS4134 No.31,Jin-rong Street	Guangzhou	China	183.36.241.79	Guangdong	
AS9808 Guangdong Mobile Communication Co.Ltd.	Bazhou	China	183.223.194.48	Sichuan	
AS9808 Guangdong Mobile Communication Co.Ltd.	Chengdu	China	183.221.61.232	Sichuan	
AS56046 China Mobile communications corporation	Zhangjiagang	China	183.213.25.6	Jiangsu	
AS24400 Shanghai Mobile Communications Co.,Ltd.	Shanghai	China	183.193.103.217	Shanghai	
AS4837 CHINA UNICOM China169 Backbone	Longquan	China	183.186.216.120	Shanxi	
AS4837 CHINA UNICOM China169 Backbone	Taiyuan	China	183.185.45.103	Shanxi	
AS45753 NETSEC NOC	Beijing	China	183.182.14.54	Beijing Shi	
AS9269 Hong Kong Broadband Network Ltd.	City of Victoria	Hong Kong	183.179.249.204	Central and Western District	
AS9269 Hong Kong Broadband Network Ltd.	Sham Shui Po	Hong Kong	183.178.202.122	Sham Shui Po	

AS4134 No.31,Jin-rong Street	Chanshan	China	183.164.86.15	Jiangsu	
AS4134 No.31,Jin-rong Street	Chanshan	China	183.163.209.112	Jiangsu	
AS4134 No.31,Jin-rong Street	Meicheng	China	183.159.80.237	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	183.156.161.227	Zhejiang	
AS4134 No.31,Jin-rong Street	Lishui	China	183.151.58.148	Zhejiang	
AS4134 No.31,Jin-rong Street	Taizhou	China	183.148.19.34	Jiangsu	
AS4134 No.31,Jin-rong Street	Jinhua	China	183.147.251.76	Zhejiang	
AS4134 No.31,Jin-rong Street	Dongyang	China	183.147.164.114	Zhejiang	
AS4134 No.31,Jin-rong Street	Shaoxing	China	183.145.161.170	Zhejiang	
AS4134 No.31,Jin-rong Street	Jiaxing	China	183.141.65.98	Zhejiang	
AS4134 No.31,Jin-rong Street	Jiaxing	China	183.140.46.166	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	183.128.114.233	Zhejiang	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	183.127.48.103	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	183.125.192.21	Gyeonggi-do	
AS4766 Korea Telecom	Busan (Hwamyeong-dong)	Republic of Korea	183.124.181.117	Busan	
AS4766 Korea Telecom	Chuncheon-si	Republic of Korea	183.123.79.22	Gangwon-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	183.122.44.147	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	183.119.143.217	Gyeonggi-do	
AS4766 Korea Telecom	Seoul (Deungchon-dong)	Republic of Korea	183.117.7.104	Seoul	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	183.113.38.10	Gyeonggi-do	
AS4766 Korea Telecom	Seoul (Yeongeon-dong)	Republic of Korea	183.112.198.28	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	183.111.113.93	Seoul	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	183.110.173.157	Gyeonggi-do	
AS4766 Korea Telecom	Asan	Republic of Korea	183.107.147.160	Chungcheongnam-do	

AS4766 Korea Telecom	Seoul	Republic of Korea	183.106.58.137	Seoul	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	183.104.130.169	Gyeonggi-do	
AS4766 Korea Telecom	Jeonju	Republic of Korea	183.103.113.155	Jeollabuk-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	183.102.61.110	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Wuzhou	China	182.90.71.185	Guangxi	
AS4837 CHINA UNICOM China169 Backbone	Nanning	China	182.88.116.109	Guangxi	
AS24560 Bharti Airtel Ltd., Telemedia Services	Bhopal	India	182.70.170.48	Madhya Pradesh	462016
AS24560 Bharti Airtel Ltd., Telemedia Services	Chennai	India	182.65.87.161	Tamil Nadu	
AS23969 TOT Public Company Limited	Bangkok	Thailand	182.53.167.11	Bangkok	
AS23969 TOT Public Company Limited	Bangkok	Thailand	182.53.13.251	Bangkok	
AS59050 Beijing Cloud-Ark Technology Co.,Ltd.	Hangzhou	China	182.49.83.70	Zhejiang	
AS4134 No.31,Jin-rong Street	Binzhou	China	182.47.76.237	Shandong	
AS4134 No.31,Jin-rong Street	Shanghai	China	182.44.252.188	Shanghai	
AS4134 No.31,Jin-rong Street	Dezhou	China	182.43.214.86	Shandong	
AS4134 No.31,Jin-rong Street	Jinan	China	182.38.217.169	Shandong	
AS4134 No.31,Jin-rong Street	Dongying	China	182.36.252.248	Shandong	
AS4134 No.31,Jin-rong Street	Dongying	China	182.36.219.96	Shandong	
AS4134 No.31,Jin-rong Street	Kunming	China	182.242.106.82	Yunnan	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	182.230.92.164	Seoul	
AS17858 LG POWERCOMM	Ansan-si	Republic of Korea	182.230.15.136	Gyeonggi-do	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	182.216.16.40	Seoul	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	182.209.190.23	Seoul	
AS45595 Pakistan Telecom Company Limited	Islamabad	Pakistan	182.188.224.249	Islamabad	44000
AS45595 Pakistan Telecom Company Limited	Islamabad	Pakistan	182.182.78.87	Islamabad	21061

AS17552 True Internet Co.,Ltd.	Bangkok (Khwaeng Din Daeng)	Thailand	182.17.48.149	Bangkok	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	182.127.105.237	Henan	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	182.126.103.170	Henan	
AS4837 CHINA UNICOM China169 Backbone	Xuchang	China	182.117.228.28	Henan	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	182.116.13.55	Henan	
AS4837 CHINA UNICOM China169 Backbone	Jiaozuo	China	182.115.175.135	Henan	
AS4837 CHINA UNICOM China169 Backbone	Sanmenxia	China	182.114.86.233	Henan	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	182.114.128.228	Henan	
AS4134 No.31,Jin-rong Street	Nanchang	China	182.109.140.10	Jiangxi	
AS4134 No.31,Jin-rong Street	Shangzhou	China	182.109.118.212	Shaanxi	
AS4134 No.31,Jin-rong Street	Xidajie	China	182.108.255.191	Jiangxi	
AS4134 No.31,Jin-rong Street	Nanchang	China	182.108.195.127	Jiangxi	
AS4134 No.31,Jin-rong Street	Nanchang	China	182.106.184.50	Jiangxi	
AS10620 Telmex Colombia S.A.	Envigado	Colombia	181.62.35.36	Antioquia	055422
AS10620 Telmex Colombia S.A.	Bogotá (Chapinero)	Colombia	181.57.35.12	Bogota D.C.	
AS10620 Telmex Colombia S.A.	Bogotá (Chapinero)	Colombia	181.56.237.58	Bogota D.C.	
AS10620 Telmex Colombia S.A.	Bogotá (Chapinero)	Colombia	181.55.253.178	Bogota D.C.	
AS10620 Telmex Colombia S.A.	Bogotá	Colombia	181.55.181.35	Bogota D.C.	111311
AS10318 CABLEVISION S.A.	Buenos Aires	Argentina	181.29.130.160	Buenos Aires F.D.	34034
AS3816 COLOMBIA TELECOMUNICACIONES S.A. ESP	Barranquilla	Colombia	181.234.220.126	Atlántico	
AS14117 Telefonica del Sur S.A.	Ancud	Chile	181.226.72.171	Los Lagos	
AS8053 IFX Networks Venezuela C.A.	Caracas	Venezuela	181.225.58.171	Capital	
AS21826 Corporación Telemic C.A.	Barquisimeto	Venezuela	181.208.72.24	Lara	
AS22927 Telefonica de Argentina	Caucete	Argentina	181.20.177.138	San Juan	5442

AS14420 CORPORACION NACIONAL DE TELECOMUNICACIONES - CNT EP	Santo Domingo de los Colorados	Ecuador	181.196.167.203	Provincia de Santo Domingo de los Tsachilas	
AS10481 Prima S.A.	Flores	Argentina	181.171.194.17	Buenos Aires F.D.	
AS10481 Prima S.A.	La Plata	Argentina	181.170.93.10	Buenos Aires	1900
AS10481 Prima S.A.	Buenos Aires	Argentina	181.170.129.10	Buenos Aires F.D.	
AS10318 CABLEVISION S.A.	San Fernando	Argentina	181.165.171.169	Buenos Aires	1646
AS7303 Telecom Argentina S.A.	Villa Angelica	Argentina	181.14.106.214	Entre Rios	2000
AS13489 EPM Telecomunicaciones S.A. E.S.P.	Medellín	Colombia	181.132.89.8	Antioquia	050001
AS13489 EPM Telecomunicaciones S.A. E.S.P.	Medellín	Colombia	181.132.135.49	Antioquia	050001
AS13489 EPM Telecomunicaciones S.A. E.S.P.	Medellín	Colombia	181.128.198.232	Antioquia	050001
AS28011 CORPORACION NACIONAL DE TELECOMUNICACIONES - CNT EP	Portoviejo	Ecuador	181.113.211.87	Provincia de Manabi	
AS7303 Telecom Argentina S.A.	Buenos Aires	Argentina	181.111.74.206	Buenos Aires F.D.	34034
AS4837 CHINA UNICOM China169 Backbone	Lanzhou	China	180.95.240.84	Gansu	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	180.66.36.112	Seoul	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	180.65.148.8	Seoul	
AS4713 NTT Communications Corporation	Kumamoto	Japan	180.42.113.107	Kumamoto	862-0955
AS4713 NTT Communications Corporation	Shimonoseki	Japan	180.27.20.49	Yamaguchi	750-0003
AS17974 PT Telekomunikasi Indonesia	Bandung	Indonesia	180.253.9.49	West Java	
AS17974 PT Telekomunikasi Indonesia	Rw 02	Indonesia	180.248.214.40	Jakarta	
AS17974 PT Telekomunikasi Indonesia	Bandung	Indonesia	180.245.99.160	West Java	
AS7713 PT Telekomunikasi Indonesia	Bekasi	Indonesia	180.243.236.211	West Java	
AS17858 LG POWERCOMM	Osan	Republic of Korea	180.228.43.230	Gyeonggi-do	
AS17638 ASN for TIANJIN Provincial Net of CT	Tianjin	China	180.213.100.129	Tianjin	

AS23969 TOT Public Company Limited	Ayutthaya	Thailand	180.180.17.233	Changwat Phra Nakhon Si Ayutthaya	13120
AS23969 TOT Public Company Limited	Bangkok (Lak Si)	Thailand	180.180.163.150	Bangkok	
AS4812 China Telecom (Group)	Shanghai	China	180.165.61.224	Shanghai	
AS4812 China Telecom (Group)	Shanghai	China	180.156.31.46	Shanghai	
AS4812 China Telecom (Group)	Shanghai	China	180.153.203.231	Shanghai	
AS4134 No.31,Jin-rong Street	Nanning	China	180.143.56.43	Guangxi	
AS4713 NTT Communications Corporation	Yamanashi	Japan	180.13.157.98	Yamanashi	
AS4134 No.31,Jin-rong Street	Xinpu	China	180.127.183.203	Jiangsu	
AS4134 No.31,Jin-rong Street	Yancheng	China	180.126.216.117	Jiangsu	
AS4134 No.31,Jin-rong Street	Suzhou	China	180.117.6.10	Jiangsu	
AS4134 No.31,Jin-rong Street	Wuxi	China	180.114.236.158	Jiangsu	
AS4134 No.31,Jin-rong Street	Wuxi	China	180.113.211.43	Jiangsu	
AS4134 No.31,Jin-rong Street	Wuxi	China	180.112.20.39	Jiangsu	
AS4134 No.31,Jin-rong Street	Nanjing	China	180.110.197.127	Jiangsu	
AS4134 No.31,Jin-rong Street	Sheyang	China	180.103.211.211	Jiangsu	
AS26599 TELEFÔNICA BRASIL S.A	São Paulo	Brazil	179.92.16.232	Sao Paulo	
AS35415 Webzilla B.V.	San José	Costa Rica	179.63.148.64	Provincia de San Jose	
AS27983 Red Intercable Digital S.A.	Veronica	Argentina	179.62.43.221	Buenos Aires	1917
AS26615 Tim Celular S.A.	São Paulo	Brazil	179.54.129.177	Sao Paulo	
AS6400 Compañía Dominicana de Teléfonos, C. por A. - CODETEL	Santo Domingo	Dominican Republic	179.53.186.113	Nacional	10206
AS6400 Compañía Dominicana de Teléfonos, C. por A. - CODETEL	Santo Domingo	Dominican Republic	179.52.190.91	Nacional	10206
AS22927 Telefonica de Argentina	Villa Crespo	Argentina	179.38.76.208	Buenos Aires F.D.	
AS22927 Telefonica de Argentina	Comodoro Rivadavia	Argentina	179.36.42.149	Chubut	9000
AS26615 Tim Celular S.A.	São Paulo	Brazil	179.34.204.2	Sao Paulo	
AS26615 Tim Celular S.A.	São Paulo	Brazil	179.34.169.138	Sao Paulo	

AS7738 Telemar Norte Leste S.A.	Rio de Janeiro	Brazil	179.198.201.17	Rio de Janeiro	
AS52565 EDGAR RODRIGUES ROMAO FILHO ME	Itambe	Brazil	179.191.18.132	Pernambuco	55920
AS28220 CABO SERVICOS DE TELECOMUNICACOES LTDA	Natal	Brazil	179.190.251.201	Rio Grande do Norte	
AS28220 CABO SERVICOS DE TELECOMUNICACOES LTDA	Natal	Brazil	179.190.183.228	Rio Grande do Norte	
AS18881 TELEFÔNICA BRASIL S.A	Vitória	Brazil	179.179.28.48	Espirito Santo	
AS263283 JGNet Internet Service Provider	Sao Miguel dos Campos	Brazil	179.127.76.60	Alagoas	57240
AS61908 Nova Net Telecomunicações Ltda	Belford Roxo	Brazil	179.124.189.82	Rio de Janeiro	
AS52539 SBS-NET TELECOMUNICACOES LTDA ME	Conceicao dos Ouros	Brazil	179.106.176.139	Minas Gerais	37548
AS53006 ALGAR TELECOM S/A	Uberlândia	Brazil	179.104.41.68	Minas Gerais	
AS26599 TELEFÔNICA BRASIL S.A	Rio de Janeiro	Brazil	179.103.108.78	Rio de Janeiro	
AS6849 PJSC Ukrtelecom	Kiev (Shevchenkivs\'kyi district)	Ukraine	178.93.14.48	Kyiv City	
AS3209 Vodafone GmbH	Luedinghausen	Germany	178.9.78.37	North Rhine-Westphalia	59348
AS35819 Bayanat Al-Oula For Network Services	Dammam	Saudi Arabia	178.80.10.216	Eastern Province	
AS3209 Vodafone GmbH	Berlin	Germany	178.8.41.7	Land Berlin	12529
AS8997 PJSC Rostelecom	St Petersburg	Russia	178.71.184.67	St.-Petersburg	190817
AS8997 PJSC Rostelecom	St Petersburg	Russia	178.70.74.209	St.-Petersburg	190817
AS8997 PJSC Rostelecom	St Petersburg	Russia	178.70.133.43	St.-Petersburg	198303
AS3209 Vodafone GmbH	Munich	Germany	178.7.238.91	Bavaria	80796
AS12389 PJSC Rostelecom	Vologda	Russia	178.69.77.2	Vologodskaya Oblast'	160017
AS3209 Vodafone GmbH	Berlin	Germany	178.5.159.132	Land Berlin	12529
AS6830 Liberty Global Operations B.V.	Budapest	Hungary	178.48.165.226	Budapest	1012
AS12389 PJSC Rostelecom	Surgut	Russia	178.46.35.53	Khanty-Mansia	628400
AS12389 PJSC Rostelecom	Saransk	Russia	178.45.19.88	Respublika Mordoviya	430001
AS3209 Vodafone GmbH	Kassel	Germany	178.4.11.178	Hesse	34128
AS6730 Sunrise Communications AG	Zurich	Switzerland	178.39.229.10	Zurich	8037
AS6730 Sunrise Communications AG	Dietikon	Switzerland	178.38.182.5	Zurich	8953
AS16276 OVH SAS	Rotterdam	Netherlands	178.33.89.169	South Holland	3071

AS3209 Vodafone GmbH	Hamburg	Germany	178.3.86.204	Hamburg	20146
AS3209 Vodafone GmbH	Hanover	Germany	178.3.165.253	Lower Saxony	30163
AS42730 EVANZO e-commerce GmbH	Berlin (Bezirk Mitte)	Germany	178.254.51.162	Berlin	
AS136714 Stampede Communications Pvt. Ltd.	Perumbavoor	India	178.248.112.83	Kerala	683547
AS29226 JSC Mastertel	Dolgoprudnyy	Russia	178.238.123.13	Moscow Oblast	141700
AS51691 F-Solutions Oy	Oulu	Finland	178.213.237.196	Northern Ostrobothnia	90100
AS6830 Liberty Global Operations B.V.	Bonn	Germany	178.203.44.31	North Rhine-Westphalia	53119
AS6830 Liberty Global Operations B.V.	Paderborn	Germany	178.201.122.141	North Rhine-Westphalia	33098
AS3209 Vodafone GmbH	Stuttgart	Germany	178.2.111.102	Baden-Württemberg Region	70180
AS3209 Vodafone GmbH	Stuttgart	Germany	178.2.109.14	Baden-Württemberg Region	70173
AS3303 Swisscom (Switzerland) Ltd	Geneva	Switzerland	178.199.146.96	Geneva	1203
AS3303 Swisscom (Switzerland) Ltd	Dubendorf	Switzerland	178.196.93.189	Zurich	8600
AS3303 Swisscom (Switzerland) Ltd	Lucerne	Switzerland	178.196.252.5	Lucerne	6006
AS3303 Swisscom (Switzerland) Ltd	Buchberg	Switzerland	178.194.172.5	Schaffhausen	8454
AS3303 Swisscom (Switzerland) Ltd	Bern	Switzerland	178.193.173.29	Bern	3013
AS3303 Swisscom (Switzerland) Ltd	Lucerne	Switzerland	178.192.91.234	Lucerne	6006
AS12389 PJSC Rostelecom	Barnaul	Russia	178.187.98.176	Altai Krai	656000
AS12389 PJSC Rostelecom	Barnaul	Russia	178.187.187.253	Altai Krai	
AS12389 PJSC Rostelecom	Krasnoyarsk	Russia	178.185.8.44	Krasnoyarskiy Kray	660000
AS60085 LLC Connect	Moscow	Russia	178.170.250.197	Moscow	
AS42304 Sibirskaia set Ltd	Krasnoyarsk	Russia	178.169.102.8	Krasnoyarskiy Kray	660000
AS31252 Starnet Servicii SRL	Soroca	Republic of Moldova	178.168.98.142	Raionul Soroca	MD-3004
AS42610 PJSC Rostelecom	Moscow	Russia	178.140.211.18	Moscow	102128
AS28812 PJSC Bashinformsvyaz	Salavat	Russia	178.129.28.153	Bashkortostan	453251
AS6697 Republican Unitary Telecommunication Enterprise Beltelecom	Chavusi	Belarus	178.124.67.181	Mogilev	213200
AS6697 Republican Unitary Telecommunication Enterprise Beltelecom	Brest	Belarus	178.122.132.234	Brest	224000
AS3209 Vodafone GmbH	Mainz	Germany	178.12.90.246	Rheinland-Pfalz	55122
AS6848 Telenet BVBA	Oudenaarde	Belgium	178.118.247.136	Flanders	9700
AS6848 Telenet BVBA	Roeselare	Belgium	178.116.236.186	Flanders	8800

AS6848 Telenet BVBA	Middelkerke	Belgium	178.116.138.166	Flanders	8430
AS3209 Vodafone GmbH	Neumünster	Germany	178.11.78.60	Schleswig-Holstein	24537
AS3209 Vodafone GmbH	Essen	Germany	178.1.61.158	North Rhine-Westphalia	45279
AS3209 Vodafone GmbH	Bochum	Germany	178.1.157.138	North Rhine-Westphalia	44801
AS28573 CLARO S.A.	Blumenau	Brazil	177.82.229.208	Santa Catarina	
AS262588 EXPLORERNET INFOLINK TECNOLOGIA E TELECOMUNICACOES	Anápolis	Brazil	177.75.53.181	Goiás	
AS263648 M. N. Redes de Comunicações Ltda.	São Leopoldo	Brazil	177.74.138.209	Rio Grande do Sul	
AS262562 Max WIFI Telecom Ltda.	Uberlândia	Brazil	177.73.17.78	Minas Gerais	
AS28241 Viaceu Internet Ltda	Divinópolis	Brazil	177.70.95.56	Minas Gerais	35500
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Santana do Livramento	Brazil	177.6.26.22	Rio Grande do Sul	40000
AS28126 BRISANET SERVICOS DE TELECOMUNICACOES LTDA	Juazeiro do Norte	Brazil	177.37.182.123	Ceara	
AS28573 CLARO S.A.	Bauru	Brazil	177.34.238.184	Sao Paulo	
AS13999 Mega Cable, S.A. de C.V.	Xalapa	Mexico	177.246.243.5	Veracruz	91227
AS28509 Cablemas Telecomunicaciones SA de CV	Chihuahua City	Mexico	177.236.204.171	Chihuahua	31104
AS13591 Mexico Red de Telecomunicaciones, S. de R.L. de C.V.	Villahermosa	Mexico	177.233.2.150	Tabasco	86000
AS13999 Mega Cable, S.A. de C.V.	Zacoalco de Torres	Mexico	177.230.205.137	Jalisco	45750
AS52913 PLANALTO NET	Carpina	Brazil	177.23.174.96	Pernambuco	
AS263401 INFORMATICA E INTERNET LTDA - ME	Divinópolis	Brazil	177.222.247.161	Minas Gerais	
AS263400 NEONET SERVIÇO COMUNICAÇÃO MULTIMIDIA LTDA	Lambari	Brazil	177.222.238.241	Mato Grosso do Sul	
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Itajaí	Brazil	177.202.228.7	Santa Catarina	
AS26599 TELEFÔNICA BRASIL S.A	Realeza	Brazil	177.196.224.177	Parana	
AS263464 Souza Cortes Elet. Elet. Ltda ME	Irajuba	Brazil	177.190.223.141	Bahia	
AS53169 Tche Turbo Provedor de Internet LTDA	Frederico Westphalen	Brazil	177.190.124.222	Rio Grande do Sul	98400
AS52928 JANAJÁ SERVIÇOS LTDA	Varzelândia	Brazil	177.185.77.146	Minas Gerais	39450

AS53008 Pontal Cabo Ltda	Tremembe	Brazil	177.185.186.128	Sao Paulo	12120
AS52898 Multipla Serviços Inteligentes	Barra do Pirai	Brazil	177.184.77.47	Rio de Janeiro	
AS52898 Multipla Serviços Inteligentes	Barra do Pirai	Brazil	177.184.75.13	Rio de Janeiro	
AS28573 CLARO S.A.	Manaus	Brazil	177.180.24.20	Amazonas	
AS7738 Telemar Norte Leste S.A.	Aracaju	Brazil	177.177.16.125	Sergipe	
AS52748 Seixas Telecomunicações	Taquari	Brazil	177.155.70.66	Rio Grande do Sul	95860
AS28573 CLARO S.A.	Rio de Janeiro	Brazil	177.142.170.78	Rio de Janeiro	
AS28573 CLARO S.A.	São Paulo	Brazil	177.141.161.202	Sao Paulo	
AS263598 BRX TELECOMUNICACOES LTDA - EPP	Guaranesia	Brazil	177.136.253.221	Minas Gerais	37810
AS262777 Conchalnet Telecomunicações LTDA - ME	Conchal	Brazil	177.128.252.58	Sao Paulo	13835
AS262343 Net Aki Internet Ltda	Holambra	Brazil	177.126.130.46	Sao Paulo	
AS263394 Networks Soluções em Informática	Vitória	Brazil	177.125.61.33	Espirito Santo	
AS262350 TB Link Telecomunicações Ltda.	Monte Mor	Brazil	177.125.191.191	Sao Paulo	13190
AS28665 Predlink Rede de Telecomunicações Ltda	Sao Goncalo	Brazil	177.12.4.232	Rio de Janeiro	
AS262651 LIBnet Comunicação Interativa Ltda	Belém	Brazil	177.105.200.71	Para	
AS28258 Powerline Internet	Juiz de Fora	Brazil	177.104.93.79	Minas Gerais	
AS262624 INETSAFE COMERCIO DE EQUIPAMENTOS ELETRONICOS LTDA	Ouro Branco	Brazil	177.104.20.218	Minas Gerais	36420
AS28640 VIPWay Telecomunicações Ltda	Campinas	Brazil	177.104.159.64	Sao Paulo	
AS3209 Vodafone GmbH	Herne	Germany	176.95.133.202	North Rhine-Westphalia	44627
AS3209 Vodafone GmbH	Berlin	Germany	176.94.152.30	Land Berlin	10117
AS3352 Telefonica De Espana	Collado Villalba	Spain	176.84.175.157	Madrid	28400
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Caldas da Rainha	Portugal	176.79.154.114	Leiria	2500-111
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Oliveira do Hospital	Portugal	176.79.122.158	Coimbra	3400-000
AS2588 LATNET SERVISS Ltd.	Riga	Latvia	176.67.35.100	Riga	

AS25133 LLC McLaut-Invest	Kaniv	Ukraine	176.67.10.47	Cherkas'ka Oblast'	19003
AS6830 Liberty Global Operations B.V.	Vacratot	Hungary	176.63.66.104	Pest megye	2163
AS6830 Liberty Global Operations B.V.	Budapest	Hungary	176.63.127.114	Budapest	1012
AS42291 OOO Istranet	Istra	Russia	176.62.188.153	Moscow Oblast	143500
AS39608 Lanet Network Ltd	Kiev	Ukraine	176.37.89.222	Kyiv City	04123
AS5607 Sky UK Limited	Bedford	United Kingdom	176.27.17.22	England	MK40
AS5607 Sky UK Limited	Margate	United Kingdom	176.250.103.202	England	CT9
AS5607 Sky UK Limited	Wandsworth	United Kingdom	176.248.192.198	England	SW18
AS8369 Intersvyaz-2 JSC	Kurgan	Russia	176.226.225.110	Kurganskaya Oblast'	640002
AS3292 Tele Danmark	Aalborg	Denmark	176.22.241.37	North Denmark	9210
AS8386 Vodafone Net Iletisim Hizmetleri Anonim Sirketi	Istanbul	Turkey	176.217.184.60	Istanbul	
AS8386 Vodafone Net Iletisim Hizmetleri Anonim Sirketi	Istanbul	Turkey	176.216.101.152	Istanbul	
AS50498 JSC ER-Telecom Holding	Lipetsk	Russia	176.215.59.228	Lipetskaya Oblast'	398024
AS51604 JSC ER-Telecom Holding	Yekaterinburg	Russia	176.215.13.217	Sverdlovskaya Oblast'	620019
AS51035 JSC ER-Telecom Holding	Ufa	Russia	176.213.235.249	Bashkortostan	450105
AS12389 PJSC Rostelecom	Omsk	Russia	176.210.29.21	Omskaya Oblast'	644000
AS3292 Tele Danmark	Kibaek	Denmark	176.21.6.94	Central Jutland	6933
AS6830 Liberty Global Operations B.V.	Hanau	Germany	176.199.54.218	Hesse	63405
AS51848 FOP Gabidylin Viktor Faritovuch	Myrhorod	Ukraine	176.126.163.164	Poltavs'ka Oblast'	
AS51669 Home Computer Networks Ltd.	Tver	Russia	176.120.180.16	Tverskaya Oblast'	170023
AS42975 Chily Valery Mykhaylovych PE	Moscow	Russia	176.114.37.192	Moscow	
AS59498 Teraline Telecom Svyaz LLC	Moscow	Russia	176.110.123.90	Moscow	102128
AS49821 Electrics Ltd	Vologda	Russia	176.108.147.52	Vologodskaya Oblast'	160001
AS48683 Bilink LLC	Kiev	Ukraine	176.105.32.143	Kyiv City	02094
AS4134 No.31,Jin-rong Street	Changchun	China	175.30.86.148	Jilin	
AS4766 Korea Telecom	Daejeon	Republic of Korea	175.248.187.29	Daejeon	

AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.243.31.68	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.243.135.51	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.239.112.36	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.233.52.33	Gyeonggi-do	
AS4766 Korea Telecom	Seoul (Dogok-dong)	Republic of Korea	175.232.8.98	Seoul	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.232.38.233	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.228.181.32	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.228.107.139	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.226.232.38	Gyeonggi-do	
AS4837 CHINA UNICOM China169 Backbone	Jilin City	China	175.22.115.219	Jilin	
AS4766 Korea Telecom	Suncheon	Republic of Korea	175.215.63.160	Jeollanam-do	
AS4766 Korea Telecom	Hanam	Republic of Korea	175.215.48.156	Gyeonggi-do	
AS4766 Korea Telecom	Kyosai	Republic of Korea	175.215.12.126	Gyeongsangnam-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	175.211.53.78	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Changchun	China	175.21.3.110	Jilin	
AS4766 Korea Telecom	Haeundae	Republic of Korea	175.200.74.113	Busan	
AS4766 Korea Telecom	Hwaseong-si	Republic of Korea	175.195.24.98	Gyeonggi-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	175.194.147.233	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Changchun	China	175.19.140.57	Jilin	
AS4837 CHINA UNICOM China169 Backbone	Dalian	China	175.174.161.219	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	175.172.246.5	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Dalian	China	175.171.26.157	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	175.168.50.78	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	175.168.41.186	Liaoning	

AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	175.168.120.190	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Dalian	China	175.166.199.86	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	175.165.210.47	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	175.148.55.110	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Anshan	China	175.146.15.42	Liaoning	
AS4788 TM Net, Internet Service Provider	Kuala Lumpur	Malaysia	175.139.230.101	Kuala Lumpur	50490
AS4788 TM Net, Internet Service Provider	Seri Kembangan	Malaysia	175.139.10.33	Selangor	43300
AS4788 TM Net, Internet Service Provider	Kuala Lumpur	Malaysia	175.137.203.94	Kuala Lumpur	56000
AS9318 SK Broadband Co Ltd	Incheon	Republic of Korea	175.127.95.158	Incheon	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	175.126.196.170	Seoul	
AS9318 SK Broadband Co Ltd	Suwon	Republic of Korea	175.119.64.93	Gyeonggi-do	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	175.119.220.57	Seoul	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	175.117.199.104	Seoul	
AS38547 WITRIBE PAKISTAN LIMITED	Lahore	Pakistan	175.110.76.153	Punjab	54000
AS4134 No.31,Jin-rong Street	Changsha	China	175.11.96.43	Hunan	
AS9541 Cyber Internet Services (Pvt) Ltd.	Karachi	Pakistan	175.107.215.251	Sindh	12311
AS4134 No.31,Jin-rong Street	Xiangtan	China	175.1.124.125	Hunan	
AS10796 Time Warner Cable Internet LLC	Kaukauna	United States	174.98.116.175	Wisconsin	54130
AS10796 Time Warner Cable Internet LLC	New Philadelphia	United States	174.96.127.184	Ohio	44663
AS577 Bell Canada	Marieville	Canada	174.92.254.95	Quebec	
AS20115 Charter Communications	Albertville	United States	174.82.165.215	Minnesota	55301
AS20115 Charter Communications	Cookeville	United States	174.80.22.10	Tennessee	38501
AS20115 Charter Communications	Alabaster	United States	174.80.108.59	Alabama	35007
AS22773 Cox Communications Inc.	Wichita	United States	174.70.183.137	Kansas	67219
AS7922 Comcast Cable Communications, LLC	Fort Lauderdale	United States	174.61.112.147	Florida	33317

AS7922 Comcast Cable Communications, LLC	Willingboro	United States	174.57.208.132	New Jersey	08046
AS7922 Comcast Cable Communications, LLC	Vineland	United States	174.57.192.139	New Jersey	08361
AS7922 Comcast Cable Communications, LLC	Luray	United States	174.53.85.60	Virginia	22835
AS7922 Comcast Cable Communications, LLC	Miami	United States	174.48.78.45	Florida	33142
AS209 Qwest Communications Company, LLC	Spokane	United States	174.31.71.203	Washington	99206
AS209 Qwest Communications Company, LLC	Glendale	United States	174.26.155.202	Arizona	85304
AS209 Qwest Communications Company, LLC	Seattle	United States	174.24.227.72	Washington	98115
AS209 Qwest Communications Company, LLC	Tacoma	United States	174.21.56.202	Washington	98446
AS209 Qwest Communications Company, LLC	Minneapolis	United States	174.20.143.39	Minnesota	55454
AS209 Qwest Communications Company, LLC	Scottsdale	United States	174.17.32.250	Arizona	85251
AS209 Qwest Communications Company, LLC	Scottsdale	United States	174.17.149.154	Arizona	85251
AS14329 OPEN ACCESS TECHNOLOGY INTERNATIONAL, INC.	Minneapolis	United States	174.141.244.130	Minnesota	55440
AS12025 IO Capital Princess, LLC	Phoenix	United States	174.128.2.124	Arizona	85008
AS812 Rogers Communications Canada Inc.	Markham	Canada	174.119.161.212	Ontario	L3R
AS11426 Time Warner Cable Internet LLC	Myrtle Beach	United States	174.107.88.21	South Carolina	29588
AS10796 Time Warner Cable Internet LLC	Grove City	United States	174.105.86.151	Ohio	43123
AS10796 Time Warner Cable Internet LLC	Milwaukee	United States	174.103.160.47	Wisconsin	53211
AS10796 Time Warner Cable Internet LLC	Kenosha	United States	174.102.248.18	Wisconsin	53142
AS10796 Time Warner Cable Internet LLC	Hamilton	United States	174.102.1.147	Ohio	45013
AS10796 Time Warner Cable Internet LLC	Pewaukee	United States	173.89.1.38	Wisconsin	53072
AS35916 MULTACOM CORPORATION	Canyon Country	United States	173.82.255.126	California	91387

AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Chantilly	United States	173.79.203.227	Virginia	20152
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Hightstown	United States	173.72.78.59	New Jersey	08520
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Hightstown	United States	173.72.45.229	New Jersey	08520
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Pittsburgh	United States	173.71.185.102	Pennsylvania	15205
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	New York	United States	173.68.152.66	New York	10001
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Harleysville	United States	173.62.201.245	Pennsylvania	19438
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Fishkill	United States	173.62.126.248	New York	12524
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Bellmawr	United States	173.61.77.82	New Jersey	08031
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Woodbury	United States	173.61.177.251	New Jersey	08096
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Richmond	United States	173.53.38.148	Virginia	23220
AS30036 Mediacom Communications Corp	Ankeny	United States	173.28.5.124	Iowa	50023
AS18779 EGIHosting	San Jose	United States	173.245.81.197	California	95113
AS26727 Brandenburg Telephone Company	Ekron	United States	173.242.136.121	Kentucky	40117
AS25840 Cascade Access, LLC	Mesquite	United States	173.239.90.87	Nevada	89027
AS23473 PAVLOV MEDIA INC	Tallahassee	United States	173.230.92.13	Florida	32304
AS16842 5Nines Data, LLC	Madison	United States	173.229.8.157	Wisconsin	53711
AS26496 GoDaddy.com, LLC	Scottsdale	United States	173.201.128.170	Arizona	85260
AS36351 SoftLayer Technologies Inc.	Chantilly	United States	173.192.192.43	Virginia	20151
AS7029 Windstream Communications LLC	Vilonia	United States	173.187.227.218	Arkansas	72173
AS11427 Time Warner Cable Internet LLC	Harker Heights	United States	173.175.1.177	Texas	76548
AS11427 Time Warner Cable Internet LLC	Harlingen	United States	173.173.250.237	Texas	78550

AS11427 Time Warner Cable Internet LLC	San Antonio	United States	173.173.104.232	Texas	78209
AS11427 Time Warner Cable Internet LLC	Commerce	United States	173.172.23.132	Texas	75428
AS11427 Time Warner Cable Internet LLC	El Paso	United States	173.172.215.107	Texas	79904
AS11427 Time Warner Cable Internet LLC	Lenexa	United States	173.172.103.208	Kansas	66215
AS33363 BRIGHT HOUSE NETWORKS, LLC	Valrico	United States	173.170.40.142	Florida	33596
AS33363 BRIGHT HOUSE NETWORKS, LLC	Winter Haven	United States	173.170.142.192	Florida	33880
AS33363 BRIGHT HOUSE NETWORKS, LLC	Riverview	United States	173.170.114.168	Florida	33578
AS33363 BRIGHT HOUSE NETWORKS, LLC	St. Petersburg	United States	173.169.93.75	Florida	33706
AS7922 Comcast Cable Communications, LLC	Bethesda	United States	173.166.150.150	Maryland	20816
AS7922 Comcast Cable Communications, LLC	Portland	United States	173.164.71.122	Oregon	97207
AS30036 Mediacom Communications Corp	Galena	United States	173.16.129.131	Illinois	61036
AS5650 Frontier Communications of America, Inc.	Bradenton	United States	172.99.46.119	Florida	34212
AS20001 Time Warner Cable Internet LLC	Orange	United States	172.90.71.170	California	92869
AS20001 Time Warner Cable Internet LLC	Chatsworth	United States	172.89.73.155	California	91311
AS16504 Granite Telecommunications LLC	Quincy	United States	172.85.248.78	Massachusetts	
AS15224 Adobe Systems Inc.	Lehi	United States	172.82.193.80	Utah	84043
AS5650 Frontier Communications of America, Inc.	Inwood	United States	172.79.192.243	West Virginia	25428
AS5650 Frontier Communications of America, Inc.	Sandpoint	United States	172.79.109.108	Idaho	83864
AS11426 Time Warner Cable Internet LLC	Fayetteville	United States	172.74.181.70	North Carolina	28304
AS11426 Time Warner Cable Internet LLC	Waxhaw	United States	172.72.168.13	North Carolina	28173
AS15003 Nobis Technology Group, LLC	Phoenix	United States	172.255.244.165	Arizona	85054
AS15003 Nobis Technology Group, LLC	Phoenix	United States	172.255.175.31	Arizona	85054
AS18779 EGIHosting	San Jose	United States	172.252.45.37	California	95113

AS20001 Time Warner Cable Internet LLC	Tustin	United States	172.250.217.75	California	92780
AS20001 Time Warner Cable Internet LLC	Murrieta	United States	172.248.175.108	California	92563
AS33330 CloudRadium L.L.C	Los Angeles	United States	172.247.9.142	California	90014
AS33330 CloudRadium L.L.C	Los Angeles	United States	172.247.69.113	California	90014
AS20940 Akamai International B.V.	Cambridge	United States	172.227.123.144	Massachusetts	02142
AS7843 Time Warner Cable Internet LLC	Cambridge	United States	172.224.2.158	Massachusetts	02142
AS7843 Time Warner Cable Internet LLC	Cambridge	United States	172.224.12.40	Massachusetts	02142
AS3257 GTT Communications Inc.	Cambridge	United States	172.224.106.47	Massachusetts	02142
AS20115 Charter Communications	Azle	United States	172.223.65.22	Texas	76020
AS20115 Charter Communications	Madison	United States	172.220.118.234	Wisconsin	53704
AS20001 Time Warner Cable Internet LLC	Loma Linda	United States	172.113.25.176	California	92354
AS20001 Time Warner Cable Internet LLC	Los Angeles	United States	172.112.64.163	California	90047
AS394138 ADVANCED HEALTH MEDIA SERVICES, LLC	South Orange	United States	172.110.54.243	New Jersey	07079
AS40676 Psychz Networks	Walnut	United States	172.107.183.180	California	91789
AS40676 Psychz Networks	Walnut	United States	172.106.208.91	California	91789
AS11351 Time Warner Cable Internet LLC	Waterville	United States	172.101.52.25	Maine	04901
AS17552 True Internet Co.,Ltd.	Bangkok	Thailand	171.99.194.132	Bangkok	10240
AS17552 True Internet Co.,Ltd.	Nong Bua Lamphu	Thailand	171.97.182.114	Changwat Nong Bua Lamphu	39000
AS4134 No.31,Jin-rong Street	Langfang	China	171.43.16.14	Hebei	
AS4134 No.31,Jin-rong Street	Wuhan	China	171.40.220.227	Hubei	
AS45758 Triple T Internet/Triple T Broadband	Lampang	Thailand	171.4.52.38	Changwat Lampang	52000
AS4837 CHINA UNICOM China169 Backbone	Nanchang	China	171.35.233.72	Jiangxi	
AS7552 Viettel Group	Hanoi	Vietnam	171.251.221.96	Thanh Pho Ha Noi	
AS7552 Viettel Group	Bien Hoa	Vietnam	171.247.212.221	Tinh GJong Nai	
AS7552 Viettel Group	Ho Chi Minh City	Vietnam	171.247.149.171	Ho Chi Minh City	
AS7552 Viettel Group	Thanh Hóa	Vietnam	171.242.190.236	Tinh Thanh Hoa	
AS7552 Viettel Group	Thuan An	Vietnam	171.239.252.98	Tinh Quang Nam	

AS7552 Viettel Group	Hanoi	Vietnam	171.234.249.49	Thanh Pho Ha Noi	
AS7552 Viettel Group	Hanoi	Vietnam	171.234.238.80	Thanh Pho Ha Noi	
AS7552 Viettel Group	Ho Chi Minh City	Vietnam	171.232.213.141	Ho Chi Minh City	
AS7552 Viettel Group	Qui Nhon	Vietnam	171.231.131.181	Tinh Binh GJinh	
AS7552 Viettel Group	Go Cong	Vietnam	171.227.18.38	Tinh Tien Giang	
AS7552 Viettel Group	Thu Dau Mot	Vietnam	171.226.113.181	Tinh Binh Duong	
AS7552 Viettel Group	Hanoi	Vietnam	171.224.81.156	Thanh Pho Ha Noi	
AS7552 Viettel Group	Thanh Pho Hai Duong	Vietnam	171.224.46.207	Tinh Hai Duong	
AS43722 AXA Technology Services Germany GmbH	Cologne	Germany	171.18.26.49	North Rhine-Westphalia	50676
AS12888 Amadeus Data Processing GmbH	Erding	Germany	171.17.181.225	Bavaria	
AS4837 CHINA UNICOM China169 Backbone	Taiyuan	China	171.127.74.115	Shanxi	
AS4837 CHINA UNICOM China169 Backbone	Taiyuan	China	171.125.20.104	Shanxi	
AS4837 CHINA UNICOM China169 Backbone	Taiyuan	China	171.117.17.180	Shanxi	
AS4837 CHINA UNICOM China169 Backbone	Taiyuan	China	171.117.115.251	Shanxi	
AS4837 CHINA UNICOM China169 Backbone	Taiyuan	China	171.116.223.30	Shanxi	
AS17552 True Internet Co.,Ltd.	Bangkok	Thailand	171.100.52.174	Bangkok	10160
AS16595 The Toro Company	Minneapolis	United States	170.92.207.109	Minnesota	55420
AS265014 GNA TELECOM LTDA - ME	Sabara	Brazil	170.84.177.122	Minas Gerais	
AS264128 FUSION TELECOMUNICAÇÕES - EIRELI	Icara	Brazil	170.78.243.30	Santa Catarina	88820
AS264909 BRConnect Telecomunicações LTDA	Ivaipora	Brazil	170.78.238.227	Parana	86870
AS266277 NOVAREDENET LTDA ME	Cariacica	Brazil	170.78.101.15	Espirito Santo	
AS266024 AGRESTE ONLINE LTDA - ME	Caruaru	Brazil	170.245.122.250	Pernambuco	
AS266324 Ig telecom	Recife	Brazil	170.238.36.210	Pernambuco	
AS265045 Johanes Kler Felema Comunicacoes ME	Ivai	Brazil	170.231.66.180	Parana	84460
AS264725 COOP. DE PROV. DE SERV. TELEF. PRESIDENTE DERQUI LTDA	Pilar	Argentina	170.231.177.149	Buenos Aires	1629
AS19524 Comerica Incorporated	Auburn Hills	United States	170.228.254.154	Michigan	48326

AS5650 Frontier Communications of America, Inc.	Middletown	United States	170.215.244.173	New York	10940
AS11014 CPS	Ingeniero Maschwitz	Argentina	170.150.153.122	Buenos Aires	1623
AS263919 POWERTECH INFORMATICA	Morro do Chapeu	Brazil	170.0.209.34	Bahia	44850
AS714 Apple Inc.	Los Gatos	United States	17.234.60.223	California	95032
AS714 Apple Inc.	Cupertino	United States	17.130.89.97	California	95014
AS714 Apple Inc.	Cupertino	United States	17.106.32.201	California	95014
AS30969 Zimbabwe Online (Private) Ltd.	Harare	Zimbabwe	169.239.27.137	Harare	
AS3741 IS	Victoria	Seychelles	168.80.137.248	English River	
AS3551 Universidad Tecnologica de Panama	Panama City	Panama	168.77.252.20	Provincia de Panama	
AS11377 SendGrid, Inc.	Denver	United States	168.245.53.233	Colorado	80202
AS27357 Rackspace Ltd.	Toronto	Canada	168.235.227.144	Ontario	M5H
AS264940 InfoTelecom Banda Larga	Cruz das Almas	Brazil	168.232.127.116	Bahia	44380
AS265459 L G DE SA	Curvelo	Brazil	168.196.99.73	Minas Gerais	35790
AS264444 LINKCE Telecom	Maracanau	Brazil	168.194.239.15	Ceara	
AS53218 SPEEDSERVICE TELECOMUNICAÇÕES LTDA	Frederico Westphalen	Brazil	168.181.119.220	Rio Grande do Sul	98400
AS14166 Softcom Technology Consulting Inc.	Toronto	Canada	168.144.148.20	Ontario	M5J
AS23089 Hotwire Communications	Miami	United States	167.88.80.149	Florida	33131
AS28408 Gdlicanet, S.A. de C.V.	Zapopan	Mexico	167.249.253.110	Jalisco	45136
AS11686 Education Networks of America	Carmel	United States	167.217.34.78	Indiana	46032
AS3816 COLOMBIA TELECOMUNICACIONES S.A. ESP	Bogotá (Teusaquillo)	Colombia	167.0.9.18	Bogota D.C.	
AS18779 EGIHosting	San Jose	United States	166.88.71.181	California	95113
AS26496 GoDaddy.com, LLC	Scottsdale	United States	166.62.118.249	Arizona	85260
AS22394 Cellco Partnership DBA Verizon Wireless	San Antonio	United States	166.251.228.133	Texas	
AS22394 Cellco Partnership DBA Verizon Wireless	Newark	United States	166.246.206.144	New Jersey	
AS28036 Telefonía Celular de Nicaragua SA.	Granada	Nicaragua	165.98.68.106	Departamento de Granada	
AS37517 CV-Multimedia	Tarrafal de Sao Nicolau	Cabo Verde	165.90.96.68	Tarrafal de São Nicolau	
AS40675 PROQUEST, LLC	Ann Arbor	United States	165.215.206.217	Michigan	48108

AS327808 Tesuco-Telecommunications	Johannesburg (Kempton Park)	South Africa	165.16.255.125	Gauteng	
AS327909 iONLINE-ISP	Randburg	South Africa	165.16.227.66	Gauteng	
AS6471 ENTEL CHILE S.A.	Santiago	Chile	164.77.95.33	Santiago Metropolitan	
AS13043 Bayer Business Services GmbH	Leverkusen	Germany	164.59.181.216	North Rhine-Westphalia	51373
AS265937 ALIANCANET TELECOM	Guarulhos	Brazil	164.163.28.40	Sao Paulo	
AS58323 ComNet Computer im Netzwerk Vertriebs-GmbH	Aachen	Germany	164.138.195.103	North Rhine-Westphalia	52070
AS22845 Virginia Community College System	Richmond	United States	164.106.30.109	Virginia	23236
AS38592 Chittagong Online Limited AS38592 AP	Chittagong	Bangladesh	163.47.87.71	Chittagong	4000
AS6325 Illinois Century Network	Joliet	United States	163.191.63.140	Illinois	60434
	Cincinnati (Central Business District)	United States	163.182.21.198	Ohio	
AS1659 Taiwan Academic Network (TANet) Information Center	Taichung	Taiwan	163.17.57.14	Taichung City	
AS1659 Taiwan Academic Network (TANet) Information Center	Fenjiu	Taiwan	163.17.225.44	Taiwan	
	Charlotte	United States	163.123.232.100	North Carolina	28262
AS31967 Florida Institute of Technology	Melbourne	United States	163.118.246.209	Florida	32901
AS13576 SOUTH DAKOTA NETWORK	Lake Andes	United States	162.244.125.155	South Dakota	57356
AS62567 DigitalOcean, LLC	New York	United States	162.243.40.246	New York	10011
AS46606 Unified Layer	Provo	United States	162.240.51.233	Utah	84606
AS46606 Unified Layer	Provo	United States	162.240.127.202	Utah	84606
AS54627 Sweetwater Television Company	Rock Springs	United States	162.216.118.31	Wyoming	
AS32016 Integra Telecom, Inc.	Redmond	United States	162.211.20.142	Washington	98053
AS46606 Unified Layer	Provo	United States	162.144.93.51	Utah	84606
AS15395 Rackspace Ltd.	London	United Kingdom	162.13.211.52	England	
AS19679 Dropbox, Inc.	San Francisco	United States	162.125.197.231	California	94107
AS6713 Itissalat Al-MAGHRIB	Casablanca	Morocco	160.90.73.108	Casablanca-Settat	
AS36903 MT-MPLS	Rabat	Morocco	160.179.12.22	Region de Rabat-Sale-Zemmour-Zaer	

AS6711 University of Szeged	Szeged	Hungary	160.114.55.234	Csongrad megye	6750
AS393349 Electronic Arts, Inc.	Redwood City	United States	159.153.223.108	California	94065
AS17264 Cerner Corporation	Liberty	United States	159.140.6.211	Missouri	64069
AS19050 U.S. Department of Health & Human Services	Rockville	United States	158.73.71.42	Maryland	20852
AS12271 Time Warner Cable Internet LLC	New York	United States	158.222.247.127	New York	10002
AS2852 CESNET z.s.p.o.	Olomouc	Czechia	158.194.136.146	Olomoucky kraj	772 00
AS8473 Bahnhof Internet AB	Uppsala	Sweden	158.174.73.48	Uppsala	741 74
AS786 Jisc Services Limited	New Cross	United Kingdom	158.143.26.70	England	SE14
AS133579 MYREPUBLIC LIMITED	Auckland	New Zealand	158.140.233.26	Auckland	1150
AS60267 Cableworld SI	Elda	Spain	157.97.172.69	Valencia	03600
AS31422 Aon Uk Limited	London	United Kingdom	157.84.6.78	England	EC2V
AS23342 Unitedlayer, Inc.	Berkeley	United States	157.151.198.133	California	94704
AS134548 DXTL Tseung Kwan O Service	Los Angeles	United States	156.237.155.86	California	
AS8452 TE-AS	Al Mansurah	Egypt	156.198.75.150	Dakahlia	
AS26940 Levi Strauss & Co.	San Francisco	United States	155.57.151.68	California	94111
	Los Angeles	United States	155.254.38.145	California	90009
	Bloemfontein	South Africa	155.233.81.173	Orange Free State	9300
AS26174 Saginaw Valley State University	Bay City	United States	155.138.62.132	Michigan	48710
AS327724 NITA	Kampala (Central Kampala)	Uganda	154.72.211.72	Central Region	
AS37654 RwEdNet-AS	Kigali (Gikondo)	Rwanda	154.68.121.190	Kigali	
AS174 Cogent Communications	Órgiva	Spain	154.47.140.114	Andalusia	18400
AS37353 MacroLAN	Johannesburg	South Africa	154.195.94.170	Gauteng	2000
AS6713 Itissalat Al-MAGHRIB	Ayt Mloul	Morocco	154.149.163.222	Marrakesh-Safi	
AS6713 Itissalat Al-MAGHRIB	Rabat	Morocco	154.147.215.202	Region de Rabat-Sale-Zemmour-Zaer	
AS36907 TVCaboAngola	Luanda	Angola	154.127.243.7	Luanda Province	
AS4713 NTT Communications Corporation	Saitama	Japan	153.232.124.173	Saitama	330-0063
AS4713 NTT Communications Corporation	Kitami	Japan	153.206.123.38	Hokkaido	090-0037

AS4713 NTT Communications Corporation	Obihiro	Japan	153.205.118.71	Hokkaido	080-0026
AS4713 NTT Communications Corporation	Tsukuba	Japan	153.174.117.206	Ibaraki	305-0813
AS4713 NTT Communications Corporation	Tokyo	Japan	153.172.178.112	Tokyo	190-0031
AS4713 NTT Communications Corporation	Akita	Japan	153.172.118.200	Akita	013-0024
AS4713 NTT Communications Corporation	Nagano	Japan	153.166.123.246	Nagano	380-0845
AS4713 NTT Communications Corporation	Tokyo	Japan	153.163.74.211	Tokyo	190-0031
AS4713 NTT Communications Corporation	Hikone	Japan	153.151.153.92	Shiga	520-2431
AS4713 NTT Communications Corporation	Nagano	Japan	153.135.93.111	Nagano	380-0845
AS4713 NTT Communications Corporation	Saitama	Japan	153.132.72.120	Saitama	330-0063
AS131921 GMO CLOUD K.K.	Tokyo	Japan	153.122.133.45	Tokyo	190-0031
AS27699 TELEFÔNICA BRASIL S.A	São Paulo	Brazil	152.250.212.92	Sao Paulo	
AS26599 TELEFÔNICA BRASIL S.A	Salvador	Brazil	152.247.235.109	Bahia	
AS36850 University of North Carolina at Chapel Hill	Chapel Hill	United States	152.23.125.204	North Carolina	27599
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Camp Hill	United States	152.208.8.49	Pennsylvania	17011
AS81 MCNC	Asheville	United States	152.18.175.95	North Carolina	28804
AS10481 Prima S.A.	Rafaela	Argentina	152.171.4.110	Santa Fe	2300
AS10481 Prima S.A.	Buenos Aires	Argentina	152.169.172.208	Buenos Aires F.D.	1870
AS16669 Applied Materials	Santa Clara	United States	152.135.132.94	California	
AS3382 University of Indonesia	Depok	Indonesia	152.118.110.187	West Java	
AS11442 North Carolina State University	Raleigh	United States	152.1.38.145	North Carolina	27606
AS57363 CDNvideo LLC	Moscow	Russia	151.236.84.251	Moscow	102128
AS5607 Sky UK Limited	Leeds	United Kingdom	151.231.11.100	England	LS12

AS5607 Sky UK Limited	Sutton Bridge	United Kingdom	151.228.43.183	England	PE12
AS5607 Sky UK Limited	Chelsea	United Kingdom	151.228.157.213	England	SW10
AS5607 Sky UK Limited	Hove	United Kingdom	151.226.30.233	England	BN3
AS1267 Wind Telecomunicazioni SpA	Cormano	Italy	151.20.136.248	Lombardy	20032
AS12430 Vodafone Spain	Valencia	Spain	151.182.72.65	Valencia	46008
AS39651 Com Hem AB	Kristianstad	Sweden	151.177.178.75	Skåne	291 00
AS39651 Com Hem AB	Uddevalla	Sweden	151.177.151.236	Västra Götaland	451 01
AS1267 Wind Telecomunicazioni SpA	Genoa	Italy	151.16.6.193	Liguria	16100
AS1267 Wind Telecomunicazioni SpA	Genoa	Italy	151.16.178.21	Liguria	16100
AS54113 Fastly	San Francisco	United States	151.101.65.164	California	94107
AS2907 Research Organization of Information and Systems, National Institute of Informatics	Chiyoda-ku (5)	Japan	150.54.66.133	Tokyo	
AS7575 Australian Academic and Research Network (AARNet)	Fraser	Australia	150.203.62.73	Australian Capital Territory	2615
AS2572 University of Missouri - dba the Missouri Research and Education Network (MOREnet)	Saint Joseph	United States	150.200.78.64	Missouri	64507
AS2572 University of Missouri - dba the Missouri Research and Education Network (MOREnet)	Saint Joseph	United States	150.200.41.36	Missouri	64507
AS2572 University of Missouri - dba the Missouri Research and Education Network (MOREnet)	Saint Joseph	United States	150.200.230.102	Missouri	64507
AS2572 University of Missouri - dba the Missouri Research and Education Network (MOREnet)	Saint Joseph	United States	150.200.183.232	Missouri	64507
AS1916 Associação Rede Nacional de Ensino e Pesquisa	Belo Horizonte	Brazil	150.164.43.132	Minas Gerais	
AS58541 Xiangtan	Jinan	China	150.138.182.3	Shandong	
AS71 Hewlett-Packard Company	Beverly Hills	United States	15.65.232.244	California	90210
AS174 Cogent Communications	Las Vegas	United States	149.71.206.110	Nevada	89101
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Burlington	United States	149.65.115.233	Massachusetts	01803

AS23171 Manhattan College	The Bronx	United States	149.61.25.1	New York	10471
AS199290 Instalaciones Y Servicios Mowitel S.L.	Torrox	Spain	149.100.16.226	Andalusia	29770
AS8386 Vodafone Net Iletisim Hizmetleri Anonim Sirketi	Istanbul	Turkey	149.0.226.25	Istanbul	
AS32586 Niagara Wireless Internet Co.	Welland	Canada	148.66.44.243	Ontario	L3B
AS24940 Hetzner Online GmbH	Falkenstein	Germany	148.251.9.196	Saxony	
AS24940 Hetzner Online GmbH	Falkenstein	Germany	148.251.163.124	Saxony	
AS7125 Universidad de Monterrey	Monterrey	Mexico	148.238.232.1	Nuevo León	64720
AS53755 Input Output Flood LLC	Phoenix	United States	148.163.106.114	Arizona	85034
AS7150 Bloomsburg University	Bloomsburg	United States	148.137.193.120	Pennsylvania	17815
AS9488 Seoul National University	Seoul	Republic of Korea	147.47.240.87	Seoul	
AS15003 Nobis Technology Group, LLC	Burbank	United States	147.255.236.18	California	91506
AS3209 Vodafone GmbH	Berlin	Germany	146.60.205.216	Land Berlin	12529
AS3209 Vodafone GmbH	Hamm	Germany	146.60.141.100	North Rhine-Westphalia	59075
AS3209 Vodafone GmbH	Leverkusen	Germany	146.60.109.242	North Rhine-Westphalia	51373
AS786 Jisc Services Limited	London	United Kingdom	146.169.105.113	England	EC2V
AS14977 State of Wyoming Department A&I;	Cheyenne	United States	146.166.250.60	Wyoming	82002
AS15428 DagNet Ltd.	Noyabrsk	Russia	146.158.90.110	Yamalo-Nenets	629800
AS15169 Google LLC	Mountain View	United States	146.148.107.253	California	94043
AS14864 RBS Securities, Inc.	Stamford	United States	146.121.21.223	Connecticut	06901
AS50528 OAO Vitebskiy Oblastnoy Techno-Torgoviy Center Garant	Vitebsk	Belarus	146.120.145.27	Vitebsk	210000
AS1136 KPN B.V.	Barneveld	Netherlands	145.132.29.220	Provincie Gelderland	3772
AS1136 KPN B.V.	Hoofddorp	Netherlands	145.132.167.66	North Holland	2133
AS1136 KPN B.V.	Amsterdam	Netherlands	145.132.1.155	North Holland	1103
AS1136 KPN B.V.	Eindhoven	Netherlands	145.130.96.6	North Brabant	5654
AS1136 KPN B.V.	Harlingen	Netherlands	145.129.49.254	Friesland	8862
AS1136 KPN B.V.	Amsterdam	Netherlands	145.129.174.119	North Holland	1053
AS1103 SURFnet bv	The Hague	Netherlands	145.103.15.91	South Holland	2512
AS22552 eSited Solutions	Los Angeles	United States	144.168.105.197	California	90017
AS1221 Telstra Pty Ltd	Thornleigh	Australia	144.140.96.160	New South Wales	2120

AS36024 Colo4, LLC	Los Angeles	United States	143.95.244.72	California	90014
AS6325 Illinois Century Network	Aurora	United States	143.195.46.180	Illinois	60506
AS13127 Tele 2 Nederland B.V.	Rotterdam	Netherlands	143.176.255.114	South Holland	3072
AS264000 Fabricio Piloni Bertolo - ME	Santa Fe do Sul	Brazil	143.0.125.99	Sao Paulo	15775
AS46606 Unified Layer	Provo	United States	142.4.29.143	Utah	84606
AS22652 Fibrenoire Inc.	Montreal	Canada	142.39.235.50	Quebec	H4N
AS12271 Time Warner Cable Internet LLC	Brooklyn	United States	142.255.95.63	New York	11215
AS15003 Nobis Technology Group, LLC	Los Angeles	United States	142.234.245.5	California	90014
AS12188 Q9 Networks Inc.	Toronto	Canada	142.131.83.185	Ontario	M5V
AS20001 Time Warner Cable Internet LLC	Perris	United States	142.129.201.125	California	92571
AS40266 SpeedyQuick Networks Inc	Nyssa	United States	142.0.211.251	Oregon	97913
AS54600 PEG TECH INC	San Jose	United States	142.0.138.154	California	95113
AS680 Verein zur Foerderung eines Deutschen Forschungsnetzes e.V.	Munich	Germany	141.61.182.165	Bavaria	81375
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Trikala	Greece	141.255.111.46	Thessaly	
AS680 Verein zur Foerderung eines Deutschen Forschungsnetzes e.V.	Ilmenau	Germany	141.24.193.137	Thuringia	98693
AS6848 Telenet BVBA	Roeselare	Belgium	141.134.175.212	Flanders	8800
AS6848 Telenet BVBA	Deinze	Belgium	141.134.167.233	Flanders	9800
AS4134 No.31,Jin-rong Street	Jinan	China	140.255.18.9	Shandong	
AS4134 No.31,Jin-rong Street	Jinan	China	140.250.149.194	Shandong	
AS1742 Harvard University	Cambridge	United States	140.247.82.8	Massachusetts	02138
AS4134 No.31,Jin-rong Street	Beijing	China	140.240.93.26	Beijing	
AS2828 MCI Communications Services, Inc. d/b/a Verizon Business	St Louis	United States	140.239.34.217	Missouri	63122
AS137 Consortium GARR	Naples	Italy	140.164.42.81	Campania	80127
AS19 Leidos, Inc.	Reston	United States	140.162.109.208	Virginia	20190
AS1659 Taiwan Academic Network (TANet) Information Center	Fenjiu	Taiwan	140.119.134.74	Taiwan	

AS7539 National Center for High-performance Computing	Fenjiu	Taiwan	140.110.149.218	Taiwan	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.95.198.194	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.94.143.30	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.88.176.135	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.87.202.4	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.84.214.208	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.84.128.150	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.82.82.166	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.80.252.247	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.75.251.82	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.75.199.170	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.75.144.205	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.66.4.176	Gyeonggi-do	
AS4766 Korea Telecom	Daejeon	Republic of Korea	14.51.42.161	Daejeon	
AS4766 Korea Telecom	Daejeon	Republic of Korea	14.50.165.43	Daejeon	
AS4766 Korea Telecom	Muan	Republic of Korea	14.48.192.183	Jeollanam-do	
AS4766 Korea Telecom	Suncheon	Republic of Korea	14.48.129.197	Jeollanam-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	14.47.114.161	Seoul	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.44.105.102	Gyeonggi-do	
AS4766 Korea Telecom	Gimhae	Republic of Korea	14.43.146.88	Gyeongsangnam-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.41.201.141	Gyeonggi-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	14.40.46.11	Seoul	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.40.224.117	Gyeonggi-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	14.34.46.254	Seoul	

AS4766 Korea Telecom	Seoul	Republic of Korea	14.34.115.207	Seoul	
AS4766 Korea Telecom	Hwaseong-si	Republic of Korea	14.33.116.157	Gyeonggi-do	
AS45899 VNPT Corp	Hanoi	Vietnam	14.231.207.202	Thanh Pho Ha Noi	
AS45899 VNPT Corp	Hanoi	Vietnam	14.231.183.168	Thanh Pho Ha Noi	
AS134772 CHINANET Guangdong province Dongguan MAN network	Dongguan	China	14.220.105.67	Guangdong	
AS7545 TPG Telecom Limited	Barangaroo	Australia	14.200.5.182	New South Wales	2000
AS4134 No.31,Jin-rong Street	Zhongshan	China	14.20.168.38	Guangdong	
AS9269 Hong Kong Broadband Network Ltd.	City of Victoria	Hong Kong	14.199.180.111	Central and Western District	
AS9269 Hong Kong Broadband Network Ltd.	Sham Shui Po	Hong Kong	14.198.30.101	Sham Shui Po	
AS45899 VNPT Corp	Ho Chi Minh City	Vietnam	14.169.120.109	Ho Chi Minh City	
AS45899 VNPT Corp	Quang Nam	Vietnam	14.165.225.30	Tinh Quang Nam	
AS45899 VNPT Corp	Hanoi	Vietnam	14.162.144.49	Thanh Pho Ha Noi	
AS45899 VNPT Corp	Hanoi	Vietnam	14.162.142.211	Thanh Pho Ha Noi	
AS4134 No.31,Jin-rong Street	Foshan	China	14.157.17.7	Guangdong	
AS4755 TATA Communications formerly VSNL is Leading ISP	Mumbai	India	14.143.43.117	Maharashtra	
AS4755 TATA Communications formerly VSNL is Leading ISP	Kolkata	India	14.141.155.131	West Bengal	
AS9269 Hong Kong Broadband Network Ltd.	City of Victoria	Hong Kong	14.136.187.129	Central and Western District	
AS4134 No.31,Jin-rong Street	Yinchuan	China	14.134.95.11	Ningsia Hui Autonomous Region	
AS4134 No.31,Jin-rong Street	Guyuan	China	14.134.174.226	Fujian	
AS4134 No.31,Jin-rong Street	Chongqing	China	14.104.241.115	Chongqing	
AS5742 Consolidated Communications, Inc.	Charleston	United States	139.67.204.141	Illinois	61920
AS5742 Consolidated Communications, Inc.	Charleston	United States	139.67.106.112	Illinois	61920
AS14061 DigitalOcean, LLC	London	United Kingdom	139.59.171.243	England	EC2V
AS786 Jisc Services Limited	Norwich	United Kingdom	139.222.41.92	England	NR3
AS4837 CHINA UNICOM China169 Backbone	Songyuan	China	139.213.157.243	Zhejiang	

AS680 Verein zur Foerderung eines Deutschen Forschungsnetzes e.V.	Freiberg	Germany	139.20.133.2	Saxony	09599
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	139.196.73.50	Zhejiang	
AS38547 WITRIBE PAKISTAN LIMITED	Karachi	Pakistan	139.190.245.72	Sindh	12311
AS63949 Linode, LLC	Singapore	Singapore	139.162.29.40	Central Singapore Community Development Council	
AS7575 Australian Academic and Reasearch Network (AARNet)	Townsville	Australia	138.7.63.112	Queensland	4810
AS264574 Elite Telecomunicações LTDA ME	Sao Tomas de Aquino	Brazil	138.36.111.244	Minas Gerais	37960
AS20868 ABB Schweiz AG	Zurich	Switzerland	138.225.7.154	Zurich	8037
AS20868 ABB Schweiz AG	Zurich	Switzerland	138.225.165.225	Zurich	8037
AS9269 Hong Kong Broadband Network Ltd.	City of Victoria	Hong Kong	138.19.208.37	Central and Western District	
AS263846 Planeta Cyber Telecomunicações LTDA	Afogados da Ingazeira	Brazil	138.185.149.116	Pernambuco	56800
AS25820 IT7 Networks Inc	Phoenix	United States	138.128.211.233	Arizona	85034
AS263801 LINKEAR SRL	Moreno	Argentina	138.122.188.178	Buenos Aires	1744
AS264479 Turbozone Internet	Feira de Santana	Brazil	138.117.32.127	Bahia	
AS393249 University of British Columbia	Vancouver	Canada	137.82.93.51	British Columbia	V6T
AS24434 James Cook University	Douglas (James Cook University Faculty of Science & Engineering)	Australia	137.219.185.184	Queensland	
AS54600 PEG TECH INC	San Jose	United States	137.175.88.64	California	95113
AS22303 SUNY College at New Paltz	New Paltz	United States	137.140.187.2	New York	12561
AS6250 NeoNova Network Services, LLC	Raleigh	United States	137.118.44.239	North Carolina	27607
AS16591 Google Fiber Inc.	Mission	United States	136.61.48.33	Kansas	66202
AS16591 Google Fiber Inc.	Kansas City	United States	136.32.37.67	Kansas	66109
AS1103 SURFnet bv	Enschede	Netherlands	136.231.117.183	Provincie Overijssel	
AS26649 General Dynamics Corporation, Land Systems Division	Tallahassee	United States	136.180.181.103	Florida	32302
AS33091 University of Calgary	Calgary	Canada	136.159.155.99	Alberta	T2N
AS18779 EGIHosting	Xiamen	China	136.0.69.64	Fujian	
AS18779 EGIHosting	San Jose	United States	136.0.160.151	California	95113
AS18779 EGIHosting	San Jose	United States	136.0.146.113	California	95113

AS5645 TekSavvy Solutions, Inc.	Toronto	Canada	135.23.136.161	Ontario	M5G
AS46543 University of Maryland at Baltimore	Baltimore	United States	134.192.170.133	Maryland	21201
AS3917 SHELL-3917 Shell Information Technology International B.V.	Rotterdam	Netherlands	134.146.86.162	South Holland	
AS58173 Nucleus VP Group Limited	Wolverhampton	United Kingdom	134.0.86.203	England	WV3
AS37917 University of Tsukuba	Tsukuba	Japan	133.51.250.40	Ibaraki	
AS2907 Research Organization of Information and Systems, National Institute of Informatics	Niigata	Japan	133.35.115.253	Niigata	950-0962
AS2518 BIGLOBE Inc.	Tokyo	Japan	133.209.200.1	Tokyo	190-0031
AS262404 JC TELECOM SERVIÇOS DE TELECOMUNICAÇÕES LTDA EPP	Conceição do Araguaia	Brazil	132.255.157.202	Para	68540
AS680 Verein zur Foerderung eines Deutschen Forschungsnetzes e.V.	Bayreuth	Germany	132.180.174.213	Bavaria	95447
AS18106 Viewqwest Pte Ltd	Singapore	Singapore	132.147.100.134	Central Singapore Community Development Council	
AS786 Jisc Services Limited	Loughborough	United Kingdom	131.231.156.108	England	LE11
AS680 Verein zur Foerderung eines Deutschen Forschungsnetzes e.V.	Bonn	Germany	131.220.151.188	North Rhine-Westphalia	53125
AS680 Verein zur Foerderung eines Deutschen Forschungsnetzes e.V.	Bonn	Germany	131.220.148.42	North Rhine-Westphalia	53125
AS31 California Institute of Technology	Pasadena	United States	131.215.177.213	California	91125
AS265903 DENIS ALVES GONTIJO - ME	Anicuns	Brazil	131.196.20.230	Goiás	
AS52980 Netion Soluções em Internet Via Rádio Ltda.	Praia Grande	Brazil	131.161.167.84	Sao Paulo	
AS12816 Leibniz-Rechenzentrum	Edling	Germany	131.159.76.176	Bavaria	83533
AS61677 E. Antunes & R. Oliveira Ltda	Assai	Brazil	131.108.114.137	Parana	
AS262323 STAR CONECT TELECOM LTDA	Sao Jose do Serido	Brazil	131.100.59.128	Rio Grande do Norte	59378
AS25540 Alphalink	Pornic	France	130.93.55.197	Pays de la Loire	
AS270 National Aeronautics and Space Administration	Huntsville	United States	130.40.230.70	Alabama	35812

AS270 National Aeronautics and Space Administration	Huntsville	United States	130.40.162.8	Alabama	35812
	Redwood City	United States	130.35.33.39	California	94065
AS3246 Tele2 SWIPnet	Stockholm	Sweden	130.28.10.208	Stockholm	173 11
AS1653 SUNET SUNET Swedish University Network	Uppsala	Sweden	130.238.202.203	Uppsala	741 74
AS1739 TUTNET TUT Autonomous System	Tampere	Finland	130.230.82.4	Pirkanmaa	33210
AS15169 Google LLC	Mountain View	United States	130.211.27.203	California	94043
AS13124 Mobiltel Ead	Sofia	Bulgaria	130.204.192.178	Sofia-Capital	1000
AS6830 Liberty Global Operations B.V.	Frankfurt am Main	Germany	130.180.1.49	Hesse	
AS680 Verein zur Foerderung eines Deutschen Forschungsnetzes e.V.	Berlin	Germany	130.149.236.254	Land Berlin	10587
AS29 Yale University	New Haven	United States	130.132.35.52	Connecticut	06511
AS16509 Amazon.com, Inc.	Seattle	United States	13.32.197.73	Washington	98109
AS16509 Amazon.com, Inc.	Seattle	United States	13.32.196.231	Washington	98109
AS16509 Amazon.com, Inc.	Mumbai	India	13.126.195.118	Maharashtra	
AS786 Jisc Services Limited	London	United Kingdom	129.31.28.196	England	EC2V
AS786 Jisc Services Limited	London	United Kingdom	129.31.194.253	England	EC2V
AS46558 Oracle Corporation	Redwood City	United States	129.213.251.242	California	94065
AS25019 Saudi Telecom Company JSC	Jeddah	Saudi Arabia	129.208.2.41	Makkah Province	
AS91 Rensselaer Polytechnic Institute	Troy	United States	129.161.217.98	New York	12180
AS3359 University of Alberta	Edmonton	Canada	129.128.206.231	Alberta	T6G
AS27 University of Maryland	College Park	United States	128.8.171.16	Maryland	20742
AS8402 VimpelCom	Kaluga	Russia	128.73.5.143	Kaluzhskaya Oblast'	248000
AS3 Massachusetts Institute of Technology	Cambridge	United States	128.31.42.152	Massachusetts	02139
AS3676 University of Iowa	Iowa City	United States	128.255.160.226	Iowa	52242
AS2552 Washington University	St Louis	United States	128.252.240.54	Missouri	63130
AS3582 University of Oregon	Eugene	United States	128.223.44.173	Oregon	97403
AS2579 Alcatel-Lucent	Santa Clara	United States	128.203.225.1	California	95052
AS2579 Alcatel-Lucent	Ottawa	Canada	128.203.218.116	Ontario	K2J
AS14061 DigitalOcean, LLC	Amsterdam	Netherlands	128.199.43.211	North Holland	1098

AS14061 DigitalOcean, LLC	Singapore	Singapore	128.199.157.181	Central Singapore Community Development Council	
AS14061 DigitalOcean, LLC	Singapore	Singapore	128.199.134.6	Central Singapore Community Development Council	
AS159 The Ohio State University	Columbus	United States	128.146.16.22	Ohio	43224
AS5588 T-Mobile Czech Republic a.s.	Bucharest	Romania	128.140.231.105	Bucuresti	
AS160 University of Chicago	Chicago	United States	128.135.221.97	Illinois	60637
AS239 University of Toronto	Toronto	Canada	128.100.8.62	Ontario	M5S
AS17676 Softbank BB Corp.	Rikujo Jieitai Nerima Chutonchi	Japan	126.79.73.185	Tokyo	176-0001
AS17676 Softbank BB Corp.	Ashikaga	Japan	126.79.48.213	Tochigi	326-0338
AS17676 Softbank BB Corp.	Chiba	Japan	126.39.152.253	Chiba	260-0854
AS17676 Softbank BB Corp.	Yamanashi	Japan	126.38.146.21	Yamanashi	
AS17676 Softbank BB Corp.	Tokyo	Japan	126.235.230.241	Tokyo	190-0031
AS17676 Softbank BB Corp.	Nagoya	Japan	126.22.94.116	Aichi	461-0019
AS17676 Softbank BB Corp.	Yokohama	Japan	126.218.56.246	Kanagawa	231-0005
AS17676 Softbank BB Corp.	Matsudo	Japan	126.217.207.152	Chiba	271-0092
AS17676 Softbank BB Corp.	Tokyo	Japan	126.153.16.162	Tokyo	190-0031
AS17676 Softbank BB Corp.	Fukuoka	Japan	126.142.22.100	Fukuoka	812-0044
AS17676 Softbank BB Corp.	Tsukuba	Japan	126.115.5.148	Ibaraki	305-0813
AS4809 China Telecom Next Generation Carrier Network	Chengdu	China	125.69.249.10	Sichuan	
AS45694 VOL Broadband	Visakhapatnam	India	125.62.202.53	Andhra Pradesh	
AS4837 CHINA UNICOM China169 Backbone	Kaifeng	China	125.47.236.108	Henan	
AS23969 TOT Public Company Limited	Lamphun	Thailand	125.26.240.235	Changwat Lamphun	51000
AS9498 BHARTI Airtel Ltd.	Chennai	India	125.22.198.54	Tamil Nadu	
AS17858 LG POWERCOMM	Seongnam-si	Republic of Korea	125.188.5.64	Gyeonggi-do	

AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	125.183.204.73	Seoul	
AS17858 LG POWERCOMM	Incheon	Republic of Korea	125.180.90.120	Incheon	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	125.177.111.105	Seoul	
AS17974 PT Telekomunikasi Indonesia	Jakarta	Indonesia	125.165.79.155	Jakarta	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	125.141.172.153	Gyeonggi-do	
AS4766 Korea Telecom	Changwon	Republic of Korea	125.135.143.94	Gyeongsangnam-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	125.132.80.14	Gyeonggi-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	125.130.253.185	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	125.130.10.206	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	125.129.153.119	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	125.128.28.152	Seoul	
AS4134 No.31,Jin-rong Street	Linhai	China	125.127.214.79	Zhejiang	
AS4134 No.31,Jin-rong Street	Linhai	China	125.126.115.29	Zhejiang	
AS4134 No.31,Jin-rong Street	Jiaxing	China	125.123.226.79	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	125.120.203.178	Zhejiang	
AS4134 No.31,Jin-rong Street	Yiwu	China	125.117.248.201	Zhejiang	
AS4134 No.31,Jin-rong Street	Dongyang	China	125.113.66.77	Zhejiang	
AS4134 No.31,Jin-rong Street	Wenzhou	China	125.108.138.50	Zhejiang	
AS4837 CHINA UNICOM China169 Backbone	Lingcheng	China	124.95.41.107	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	124.94.91.109	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Anshan	China	124.94.238.153	Liaoning	
AS9583 Sify Limited	Chennai	India	124.7.48.15	Tamil Nadu	
AS4808 China Unicom Beijing Province Network	Beijing	China	124.64.91.138	Beijing	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	124.62.92.242	Seoul	
AS17858 LG POWERCOMM	Daegu	Republic of Korea	124.59.54.140	Daegu	

AS17858 LG POWERCOMM	Busan	Republic of Korea	124.59.112.194	Busan	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	124.58.70.213	Seoul	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	124.50.61.165	Seoul	
AS9541 Cyber Internet Services (Pvt) Ltd.	Lahore	Pakistan	124.29.208.203	Punjab	54000
AS9269 Hong Kong Broadband Network Ltd.	City of Victoria	Hong Kong	124.244.54.133	Central and Western District	
AS4134 No.31,Jin-rong Street	Changsha	China	124.231.41.169	Hunan	
AS4134 No.31,Jin-rong Street	Hengyang	China	124.228.54.138	Hunan	
AS4134 No.31,Jin-rong Street	Haikou	China	124.225.27.15	Hainan	
AS4808 China Unicom Beijing Province Network	Beijing	China	124.202.132.136	Beijing	
AS4739 Internode Pty Ltd	Adelaide	Australia	124.169.212.95	South Australia	5008
AS4837 CHINA UNICOM China169 Backbone	Xiaoyi	China	124.165.77.35	Shanxi	
AS4837 CHINA UNICOM China169 Backbone	Longquan	China	124.165.245.202	Shanxi	
AS9694 Seokyeong Cable Television Co., Ltd.	Jinju-si (Jinnyangho-ro)	Republic of Korea	124.153.184.14	Gyeongsangnam-do	
AS4837 CHINA UNICOM China169 Backbone	Dezhou	China	124.135.162.182	Shandong	
AS9929 CHINA UNICOM Industrial Internet Backbone	Jinan	China	124.130.223.129	Shandong	
AS17552 True Internet Co.,Ltd.	Bangkok	Thailand	124.120.30.15	Bangkok	10540
AS4134 No.31,Jin-rong Street	Zhoushan	China	123.96.204.114	Zhejiang	
AS9394 China TieTong Telecommunications Corporation	Beijing	China	123.95.168.62	Beijing	
AS24138 China Tietong Telecommunication Corporation	Beijing	China	123.66.231.12	Beijing	
AS4134 No.31,Jin-rong Street	Puyang Chengguanzhen	China	123.52.215.170	Henan	
AS17494 Telecom Operator & Internet Service Provider as well	Dhaka	Bangladesh	123.49.5.209	Dhaka Division	1000
AS45899 VNPT Corp	Hanoi	Vietnam	123.30.40.38	Thanh Pho Ha Noi	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	123.234.117.170	Shandong	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	123.214.85.175	Seoul	

AS9269 Hong Kong Broadband Network Ltd.	City of Victoria	Hong Kong	123.203.134.113	Central and Western District	
AS38121 CJ Hello Co., Ltd.	Nangen	Republic of Korea	123.200.100.91	Jeollabuk-do	
AS45899 VNPT Corp	Ho Chi Minh City	Vietnam	123.20.177.170	Ho Chi Minh City	
AS4847 China Networks Inter-Exchange	Beijing	China	123.199.141.60	Beijing	
AS9924 Taiwan Fixed Network, Telco and Network Service Provider.	Hsinchu	Taiwan	123.195.28.149	Hsinchu	
AS38841 kbro CO. Ltd.	Taipei	Taiwan	123.192.77.51	Taipei City	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	123.189.180.51	Liaoning	
AS17633 ASN for Shandong Provincial Net of CT	Weifang	China	123.168.238.177	Shandong	
AS4134 No.31,Jin-rong Street	Harbin	China	123.166.244.181	Heilongjiang	
AS4134 No.31,Jin-rong Street	Zhengzhou	China	123.162.20.143	Henan	
AS4134 No.31,Jin-rong Street	Zhengzhou	China	123.161.24.178	Henan	
AS4837 CHINA UNICOM China169 Backbone	Changsha	China	123.156.184.23	Jiangsu	
AS4837 CHINA UNICOM China169 Backbone	Xi'an	China	123.139.249.72	Shaanxi	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	123.135.21.246	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Laiwu	China	123.134.200.18	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Dongying	China	123.134.13.143	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Beijing	China	123.133.192.89	Beijing	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	123.133.134.26	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Laizhou	China	123.130.129.227	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Dongying	China	123.129.91.202	Shandong	
AS4808 China Unicom Beijing Province Network	Beijing	China	123.123.211.225	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	123.119.113.196	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	123.118.53.26	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	123.118.207.122	Beijing	

AS4808 China Unicom Beijing Province Network	Beijing	China	123.115.223.154	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	123.114.185.156	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	123.114.14.94	Beijing	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	123.111.53.145	Seoul	
AS9569 SEOCHO CABLE SYSTEMS CO., LTD.	Seoul	Republic of Korea	123.108.179.17	Seoul	
AS132165 Connect Communications	Karachi	Pakistan	122.8.194.184	Sindh	12311
AS4134 No.31,Jin-rong Street	Rizhao	China	122.6.120.176	Shandong	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	122.46.252.109	Seoul	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	122.43.25.177	Seoul	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	122.43.175.178	Seoul	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	122.42.77.48	Seoul	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	122.41.79.68	Seoul	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	122.40.133.196	Seoul	
AS17858 LG POWERCOMM	Geoje	Republic of Korea	122.38.131.232	Gyeongsangnam-do	
AS4134 No.31,Jin-rong Street	Yiwu	China	122.242.173.30	Zhejiang	
AS4134 No.31,Jin-rong Street	Lishui	China	122.241.84.47	Zhejiang	
AS4134 No.31,Jin-rong Street	Lishui	China	122.241.28.178	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	122.224.242.145	Zhejiang	
AS17506 UCOM Corp.	Tokyo	Japan	122.211.33.202	Tokyo	190-0031
AS24560 Bharti Airtel Ltd., Telemedia Services	Bengaluru	India	122.167.150.150	Karnataka	
AS24560 Bharti Airtel Ltd., Telemedia Services	Chennai	India	122.164.203.219	Tamil Nadu	
AS24560 Bharti Airtel Ltd., Telemedia Services	New Delhi	India	122.162.127.52	National Capital Territory of Delhi	
AS4837 CHINA UNICOM China169 Backbone	Harbin	China	122.159.193.10	Heilongjiang	
AS4837 CHINA UNICOM China169 Backbone	Taihecon	China	122.159.130.130	Heilongjiang	
AS4837 CHINA UNICOM China169 Backbone	Harbin	China	122.158.67.127	Heilongjiang	

AS4837 CHINA UNICOM China169 Backbone	Daqing	China	122.158.34.62	Heilongjiang	
AS9919 New Century InfoComm Tech Co., Ltd.	Taipei	Taiwan	122.146.179.129	Taipei City	
AS4837 CHINA UNICOM China169 Backbone	Changchun	China	122.143.146.66	Jilin	
AS4837 CHINA UNICOM China169 Backbone	Dehui	China	122.139.209.48	Jilin	
AS4837 CHINA UNICOM China169 Backbone	Meihekou	China	122.138.109.177	Jilin	
AS3462 Data Communication Business Group	Douliu	Taiwan	122.117.73.26	Tainan	
AS3462 Data Communication Business Group	Tainan City	Taiwan	122.117.174.165	Tainan	
AS4804 Microplex PTY LTD	Elanora Heights	Australia	122.106.233.253	New South Wales	2101
AS2510 FUJITSU LIMITED	Sapporo	Japan	121.94.100.77	Hokkaido	098-5722
AS9286 KINX	Seoul (Eonju-ro 30-gil)	Republic of Korea	121.78.137.21	Seoul	
AS3786 LG DACOM Corporation	Anyang-si (Deokcheon-ro)	Republic of Korea	121.66.164.178	Gyeonggi-do	
AS17639 Converge ICT Solutions Inc.	Makati City	Philippines	121.58.217.10	National Capital Region	1214
AS17639 Converge ICT Solutions Inc.	Mandaluyong City	Philippines	121.58.208.165	National Capital Region	1503
AS17885 PT Excelcomindo Pratama	Rw 02	Indonesia	121.52.77.94	Jakarta	
AS4837 CHINA UNICOM China169 Backbone	Datong	China	121.30.61.158	Shanxi	
AS4837 CHINA UNICOM China169 Backbone	Datong	China	121.30.18.16	Shanxi	
AS4837 CHINA UNICOM China169 Backbone	Baoding	China	121.27.12.84	Hebei	
AS4538 China Education and Research Network Center	Changzhou	China	121.248.188.200	Jiangsu	
AS17908 Tata Communications	Pune	India	121.246.60.78	Maharashtra	411017
AS4755 TATA Communications formerly VSNL is Leading ISP	Bengaluru	India	121.244.26.69	Karnataka	
AS4134 No.31,Jin-rong Street	Suzhou	China	121.239.164.72	Jiangsu	
AS4134 No.31,Jin-rong Street	Suzhou	China	121.228.210.156	Jiangsu	
AS4134 No.31,Jin-rong Street	Suzhou	China	121.224.237.160	Jiangsu	

AS1221 Telstra Pty Ltd	Aveley	Australia	121.215.145.149	Western Australia	6069
AS4538 China Education and Research Network Center	Hangzhou	China	121.192.58.28	Zhejiang	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	121.190.11.170	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	121.185.148.21	Gyeonggi-do	
AS4766 Korea Telecom	Daegu	Republic of Korea	121.182.38.77	Daegu	
AS4766 Korea Telecom	Jeonju	Republic of Korea	121.179.76.76	Jeollabuk-do	
AS4766 Korea Telecom	Gimhae-si (Buwon-dong)	Republic of Korea	121.176.19.51	Gyeongsangnam-do	
AS4766 Korea Telecom	Busan (Bugok 3(sam)-dong)	Republic of Korea	121.175.166.42	Busan	
AS4766 Korea Telecom	Busan	Republic of Korea	121.175.122.239	Busan	
AS4766 Korea Telecom	Busan	Republic of Korea	121.174.192.161	Busan	
AS4766 Korea Telecom	Seoul	Republic of Korea	121.163.16.178	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	121.162.250.220	Seoul	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	121.152.193.241	Gyeonggi-do	
AS4766 Korea Telecom	Incheon	Republic of Korea	121.143.62.19	Incheon	
AS4766 Korea Telecom	Seoul	Republic of Korea	121.143.102.139	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	121.134.49.129	Seoul	
AS4713 NTT Communications Corporation	Fujisawa	Japan	121.117.147.137	Kanagawa	251-0052
AS17816 China Unicom IP network China169 Guangdong province	Dongguan	China	120.84.194.225	Guangdong	
AS4134 No.31,Jin-rong Street	Yanqi	China	120.70.170.230	Xinjiang	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	120.7.9.96	Hebei	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	120.55.49.25	Zhejiang	
AS56040 China Mobile communications corporation	Shenzhen	China	120.236.52.79	Guangdong	
AS24445 Henan Mobile Communications Co.,Ltd	Zhengzhou	China	120.219.75.40	Henan	

AS24445 Henan Mobile Communications Co.,Ltd	Zhecheng Chengguanzhen	China	120.219.157.75	Henan	
AS24445 Henan Mobile Communications Co.,Ltd	Zhecheng Chengguanzhen	China	120.219.153.85	Henan	
AS56042 China Mobile communications corporation	Beijing (Xicheng Qu)	China	120.207.218.204	Beijing	
AS24444 Shandong Mobile Communication Company Limited	Jinan	China	120.192.116.15	Shandong	
AS10036 DLIVE	Seoul	Republic of Korea	120.142.122.97	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	120.12.198.174	Hebei	
AS1659 Taiwan Academic Network (TANet) Information Center	Taipei	Taiwan	120.119.91.240	Taipei City	
AS7018 AT&T; Services, Inc.	Denver (Central)	United States	12.50.12.138	Colorado	
AS7018 AT&T; Services, Inc.	San Mateo	United States	12.245.190.122	California	94402
AS7018 AT&T; Services, Inc.	Atlanta	United States	12.23.32.35	Georgia	
AS27632 Tractor Supply Company	Nixa	United States	12.208.239.18	Missouri	
AS7018 AT&T; Services, Inc.	Avalon	United States	12.203.239.136	New Jersey	
AS7018 AT&T; Services, Inc.	Lafayette	United States	12.182.217.105	Louisiana	70508
AS7018 AT&T; Services, Inc.	Buffalo	United States	12.145.215.24	New York	14221
AS7018 AT&T; Services, Inc.	Morristown	United States	12.113.76.105	New Jersey	
AS7018 AT&T; Services, Inc.	Chicago (Near West Side)	United States	12.106.189.177	Illinois	
AS9299 Philippine Long Distance Telephone Company	Mandaluyong City	Philippines	119.93.103.157	National Capital Region	
AS4837 CHINA UNICOM China169 Backbone	Chengdu	China	119.7.40.49	Sichuan	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	119.67.1.139	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Changchun	China	119.52.40.220	Jilin	
AS4837 CHINA UNICOM China169 Backbone	Changchun	China	119.52.234.78	Jilin	
AS4837 CHINA UNICOM China169 Backbone	Chengdu	China	119.5.136.115	Sichuan	
AS132203 Tencent Building, Kejizhongyi Avenue	Beijing	China	119.28.164.86	Beijing	

AS9269 Hong Kong Broadband Network Ltd.	City of Victoria	Hong Kong	119.246.110.101	Central and Western District	
AS2518 BIGLOBE Inc.	Tokyo	Japan	119.241.171.196	Tokyo	190-0031
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	119.219.198.78	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	119.216.32.234	Gyeonggi-do	
AS4766 Korea Telecom	Busan	Republic of Korea	119.215.6.3	Busan	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	119.211.57.148	Gyeonggi-do	
AS4766 Korea Telecom	Cheongju-si	Republic of Korea	119.201.164.12	North Chungcheong	
AS4766 Korea Telecom	Bucheon-si	Republic of Korea	119.197.89.193	Gyeonggi-do	
AS4766 Korea Telecom	Incheon (Yeonsu-dong)	Republic of Korea	119.197.198.188	Incheon	
AS4766 Korea Telecom	Incheon	Republic of Korea	119.196.170.67	Incheon	
AS4766 Korea Telecom	Changwon	Republic of Korea	119.195.26.125	Gyeongsangnam-do	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	119.185.177.227	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Beijing	China	119.181.91.5	Beijing	
AS45595 Pakistan Telecom Company Limited	Islamabad	Pakistan	119.159.252.238	Islamabad	21061
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	119.119.32.69	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Dashiqiao	China	119.117.156.178	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Panjin	China	119.115.76.191	Liaoning	
AS4134 No.31,Jin-rong Street	Wuhan	China	119.100.216.125	Hubei	
AS4134 No.31,Jin-rong Street	Guizhoumanzuxiang	China	119.1.248.75	Liaoning	
AS4134 No.31,Jin-rong Street	Zunyi	China	119.0.77.205	Guizhou	
AS45090 Shenzhen Tencent Computer Systems Company Limited	Beijing	China	118.89.63.225	Beijing	
AS45090 Shenzhen Tencent Computer Systems Company Limited	Beijing	China	118.89.100.121	Beijing	
AS4837 CHINA UNICOM China169 Backbone	Taiyuan	China	118.81.93.221	Shanxi	
AS4837 CHINA UNICOM China169 Backbone	Taiyuan	China	118.72.115.210	Shanxi	

AS4766 Korea Telecom	Seongnam-si	Republic of Korea	118.62.216.171	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	118.61.146.239	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	118.58.28.79	Gyeonggi-do	
AS4766 Korea Telecom	Goyang-si	Republic of Korea	118.49.15.181	Gyeonggi-do	
AS4766 Korea Telecom	Daejeon	Republic of Korea	118.44.181.19	Daejeon	
AS4766 Korea Telecom	Kyeryong	Republic of Korea	118.42.228.107	Jeollabuk-do	
AS4766 Korea Telecom	Busan	Republic of Korea	118.38.57.116	Busan	
AS4766 Korea Telecom	Seoul	Republic of Korea	118.32.46.231	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	118.32.210.7	Seoul	
AS4134 No.31,Jin-rong Street	Changsha	China	118.251.20.153	Hunan	
AS9924 Taiwan Fixed Network, Telco and Network Service Provider.	Taipei	Taiwan	118.232.55.18	Taipei City	
AS9924 Taiwan Fixed Network, Telco and Network Service Provider.	Tainan City	Taiwan	118.232.134.238	Tainan	
AS9318 SK Broadband Co Ltd	Daejeon	Republic of Korea	118.223.38.91	Daejeon	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	118.220.182.89	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	118.216.230.164	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	118.216.107.60	Seoul	
AS16625 Akamai Technologies, Inc.	Singapore	Singapore	118.215.117.106	Central Singapore	
AS9329 Sri Lanka Telecom Internet	Singapore	Singapore	118.214.50.147	Central Singapore	
AS4739 Internode Pty Ltd	Adelaide	Australia	118.211.59.51	South Australia	5000
AS4739 Internode Pty Ltd	Melbourne	Australia	118.209.134.38	Victoria	3000
AS4739 Internode Pty Ltd	Redbank	Australia	118.208.11.250	Queensland	4301
AS9506 Singtel Fibre Broadband	Singapore	Singapore	118.200.91.176	Central Singapore Community Development Council	
AS23650 AS Number for CHINANET jiangsu province backbone	Guangzhou	China	118.191.2.214	Guangdong	
AS4134 No.31,Jin-rong Street	Lanzhou	China	118.181.203.118	Gansu	

AS56055 Micro Logic Systems	Noumea	New Caledonia	118.179.240.204	South Province	
AS10036 DLIVE	Seoul	Republic of Korea	118.176.51.133	Seoul	
AS23969 TOT Public Company Limited	Bangkok	Thailand	118.173.17.205	Bangkok	
AS3462 Data Communication Business Group	Taichung	Taiwan	118.170.50.51	Taichung City	
AS3462 Data Communication Business Group	Taipei	Taiwan	118.160.102.93	Taipei City	
AS18419 DaDa Broadband LTD.	Taipei	Taiwan	118.150.194.37	Taipei City	
AS4788 TM Net, Internet Service Provider	Kampung D	Malaysia	118.101.211.215	Negeri Sembilan	
AS4788 TM Net, Internet Service Provider	Kuala Lumpur	Malaysia	118.101.139.137	Kuala Lumpur	56000
AS4134 No.31,Jin-rong Street	Kunshan	China	117.81.238.251	Jiangsu	
AS7552 Viettel Group	Bac Giang	Vietnam	117.7.161.123	Tinh Bac Giang	
AS4134 No.31,Jin-rong Street	Wuhan	China	117.69.128.33	Hubei	
AS4134 No.31,Jin-rong Street	Changzhou	China	117.63.36.163	Jiangsu	
AS7552 Viettel Group	Hanoi	Vietnam	117.6.114.237	Thanh Pho Ha Noi	
AS7552 Viettel Group	Hanoi	Vietnam	117.5.113.17	Thanh Pho Ha Noi	
AS4134 No.31,Jin-rong Street	Nanchang	China	117.41.211.205	Jiangxi	
AS4134 No.31,Jin-rong Street	Fuzhou	China	117.31.18.126	Fujian	
AS4134 No.31,Jin-rong Street	Zhangzhou	China	117.27.8.195	Fujian	
AS9829 National Internet Backbone	New Delhi	India	117.255.80.185	National Capital Territory of Delhi	
AS9829 National Internet Backbone	Mysore	India	117.242.160.118	Karnataka	570008
AS9829 National Internet Backbone	Bengaluru	India	117.230.132.195	Karnataka	
AS9829 National Internet Backbone	Thoothukudi	India	117.222.124.25	Tamil Nadu	628001
AS9829 National Internet Backbone	Nileshwar	India	117.216.67.202	Kerala	671314
AS9829 National Internet Backbone	Kannur	India	117.213.25.212	Kerala	670741
AS9829 National Internet Backbone	Punalur	India	117.206.58.24	Kerala	691306
AS45671 Wholesale Services Provider	Brisbane	Australia	117.20.7.172	Queensland	4000

AS9829 National Internet Backbone	Visakhapatnam	India	117.198.147.204	Andhra Pradesh	
AS9829 National Internet Backbone	Kolkata	India	117.194.239.217	West Bengal	700086
AS9829 National Internet Backbone	Kottayam	India	117.193.161.154	Kerala	686001
AS9829 National Internet Backbone	Nagarbhavi	India	117.192.170.199	Karnataka	560072
AS9829 National Internet Backbone	Bengaluru	India	117.192.146.1	Karnataka	
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing (Xicheng Qu)	China	117.190.56.33	Beijing	
AS24400 Shanghai Mobile Communications Co.,Ltd.	Shanghai	China	117.185.91.130	Shanghai	
AS24400 Shanghai Mobile Communications Co.,Ltd.	Shanghai	China	117.184.23.17	Shanghai	
AS9808 Guangdong Mobile Communication Co.Ltd.	Nanchang	China	117.169.157.164	Jiangxi	
AS24445 Henan Mobile Communications Co.,Ltd	Nanyang	China	117.158.76.140	Henan	
AS4837 CHINA UNICOM China169 Backbone	Tianjin	China	117.14.9.216	Tianjin	
AS38019 tianjin Mobile Communication Company Limited	Tianjin	China	117.131.234.239	Tianjin	
AS4837 CHINA UNICOM China169 Backbone	Tianjin	China	117.12.20.138	Tianjin	
AS4847 China Networks Inter-Exchange	Beijing	China	117.112.20.60	Beijing	
AS9316 DACOM-PUBNETPLUS	Seoul (Hangang-daero)	Republic of Korea	117.110.236.95	Seoul	
AS10010 TOKAI Communications Corporation	Shizuoka	Japan	117.104.32.242	Shizuoka	420-0839
AS7552 Viettel Group	Hanoi	Vietnam	117.1.207.29	Thanh Pho Ha Noi	
AS24086 Viettel Corporation	Ho Chi Minh City	Vietnam	116.98.230.23	Ho Chi Minh City	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	116.62.62.88	Zhejiang	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	116.62.61.218	Zhejiang	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Beijing	China	116.62.231.9	Beijing	
AS2514 NTT PC Communications, Inc.	Tokyo	Japan	116.58.189.157	Tokyo	190-0031
AS4134 No.31,Jin-rong Street	Kunming	China	116.53.35.44	Yunnan	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	116.45.227.9	Seoul	

AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	116.45.161.80	Seoul	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	116.37.16.58	Seoul	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	116.34.247.137	Seoul	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	116.34.156.19	Seoul	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	116.34.101.156	Seoul	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	116.33.255.234	Seoul	
AS38680 CMB	Seoul	Republic of Korea	116.255.69.138	Seoul	
AS4812 China Telecom (Group)	Shanghai	China	116.228.98.163	Shanghai	
AS4134 No.31,Jin-rong Street	Guangzhou	China	116.22.208.122	Guangdong	
AS4809 China Telecom Next Generation Carrier Network	Wuhan	China	116.211.17.54	Hubei	
AS4134 No.31,Jin-rong Street	Shuyicun	China	116.208.227.207	Shanxi	
AS4134 No.31,Jin-rong Street	Wuhan	China	116.208.192.58	Hubei	
AS10081 DiGi Telecommunications Sdn Bhd	Shah Alam (Seksyen 11)	Malaysia	116.197.29.38	Selangor	
AS9506 Singtel Fibre Broadband	Singapore	Singapore	116.15.9.128	Central Singapore Community Development Council	
AS9506 Singtel Fibre Broadband	Singapore	Singapore	116.15.214.25	Central Singapore Community Development Council	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	116.126.90.49	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Beijing	China	116.117.171.162	Beijing	
AS4837 CHINA UNICOM China169 Backbone	Baotou	China	116.116.114.241	Inner Mongolia Autonomous Region	
AS7552 Viettel Group	Hanoi	Vietnam	116.111.120.90	Thanh Pho Ha Noi	
AS7552 Viettel Group	Thanh Pho Thai Nguyen	Vietnam	116.104.170.136	Tinh Thai Nguyen	
AS7552 Viettel Group	Thong Nhat	Vietnam	116.101.173.103	Tinh Phu Tho	
AS24086 Viettel Corporation	Ho Chi Minh City	Vietnam	116.100.88.53	Ho Chi Minh City	
AS3786 LG DACOM Corporation	Seoul	Republic of Korea	115.93.78.241	Seoul	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	115.9.193.50	Gyeonggi-do	

AS4766 Korea Telecom	Seongnam-si	Republic of Korea	115.9.107.245	Gyeonggi-do	
AS3786 LG DACOM Corporation	Seoul	Republic of Korea	115.88.234.5	Seoul	
AS17598 CJ Hello Co., Ltd.	Wonju-si (Dongbusunhwan-ro)	Republic of Korea	115.86.187.142	Gangwon-do	
AS7552 Viettel Group	Vinh Long	Vietnam	115.77.38.158	Tinh Vinh Long	
AS7552 Viettel Group	Ho Chi Minh City	Vietnam	115.74.100.217	Ho Chi Minh City	
AS7552 Viettel Group	Thuan An	Vietnam	115.73.123.13	Tinh Quang Nam	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	115.61.200.20	Henan	
AS4837 CHINA UNICOM China169 Backbone	Anyang	China	115.59.30.110	Henan	
AS4837 CHINA UNICOM China169 Backbone	Luoyang	China	115.50.167.223	Henan	
AS18101 Reliance Communications Ltd.DAKC MUMBAI	Bengaluru	India	115.249.71.246	Karnataka	
AS58461 No.288,Fu-chun Road	Beijing	China	115.239.255.137	Beijing	
AS58461 No.288,Fu-chun Road	Putian	China	115.231.75.102	Fujian	
AS4134 No.31,Jin-rong Street	Huzhou	China	115.231.252.69	Zhejiang	
AS4134 No.31,Jin-rong Street	Lishui	China	115.230.78.31	Zhejiang	
AS4134 No.31,Jin-rong Street	Lishui	China	115.226.164.192	Zhejiang	
AS4134 No.31,Jin-rong Street	Shaoxing	China	115.224.88.125	Zhejiang	
AS4134 No.31,Jin-rong Street	Wenzhou	China	115.223.109.234	Zhejiang	
AS4766 Korea Telecom	Busan	Republic of Korea	115.22.182.76	Busan	
AS4766 Korea Telecom	Ulsan	Republic of Korea	115.22.104.198	Ulsan	
AS4134 No.31,Jin-rong Street	Wenzhou	China	115.219.119.235	Zhejiang	
AS4134 No.31,Jin-rong Street	Shanghai	China	115.216.189.7	Shanghai	
AS4134 No.31,Jin-rong Street	Hangzhou	China	115.216.121.18	Zhejiang	
AS4134 No.31,Jin-rong Street	Guli	China	115.211.115.188	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	115.205.1.121	Zhejiang	
AS4134 No.31,Jin-rong Street	Shanghai	China	115.204.53.83	Shanghai	

AS4134 No.31,Jin-rong Street	Hangzhou	China	115.204.159.132	Zhejiang	
AS4134 No.31,Jin-rong Street	Linhai	China	115.203.160.148	Zhejiang	
AS4134 No.31,Jin-rong Street	Wenling	China	115.202.131.164	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	115.199.108.216	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	115.196.60.51	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	115.193.162.227	Zhejiang	
AS4766 Korea Telecom	Tongyeong-si (Gwangdo-myeon)	Republic of Korea	115.19.231.234	Gyeongsangnam-do	
AS4766 Korea Telecom	Hadong-gun (Agyang-myeon)	Republic of Korea	115.17.233.84	Gyeongsangnam-do	
AS24535 PT.Insan Sarana Telematika	Jakarta	Indonesia	115.166.115.34	Jakarta	
AS2527 So-net Entertainment Corporation	Yasu	Japan	115.163.51.174	Shiga	520-2341
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	115.16.168.182	Gyeonggi-do	
AS45090 Shenzhen Tencent Computer Systems Company Limited	Beijing	China	115.159.207.147	Beijing	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	115.140.71.7	Seoul	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	115.140.150.63	Seoul	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	115.139.162.134	Seoul	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	115.138.125.143	Seoul	
AS4788 TM Net, Internet Service Provider	Alor Star	Malaysia	115.135.234.152	Kedah	06000
AS10199 Tata Communications Ltd	Hyderabad	India	115.118.105.42	Telangana	
AS4755 TATA Communications formerly VSNL is Leading ISP	Mumbai	India	115.110.228.103	Maharashtra	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	115.10.162.57	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	115.1.108.176	Gyeonggi-do	
AS4134 No.31,Jin-rong Street	Hefei	China	114.96.81.243	Anhui	
AS4804 Microplex PTY LTD	Lane Cove	Australia	114.75.107.188	New South Wales	2066

AS3462 Data Communication Business Group	Kaohsiung City	Taiwan	114.39.78.165	Kaohsiung	
AS7623 Gyeongbuk Cable TV	Seoul (Banpo-daero)	Republic of Korea	114.30.49.70	Seoul	
AS4808 China Unicom Beijing Province Network	Beijing	China	114.246.213.158	Beijing	
AS4134 No.31,Jin-rong Street	Nantong	China	114.232.153.127	Jiangsu	
AS4134 No.31,Jin-rong Street	Nanjing	China	114.230.86.177	Jiangsu	
AS4134 No.31,Jin-rong Street	Nanjing	China	114.221.3.35	Jiangsu	
AS4134 No.31,Jin-rong Street	Suzhou	China	114.219.75.4	Jiangsu	
AS4134 No.31,Jin-rong Street	Suzhou	China	114.217.38.127	Jiangsu	
AS4134 No.31,Jin-rong Street	Suzhou	China	114.216.54.31	Jiangsu	
AS4134 No.31,Jin-rong Street	Suzhou	China	114.216.54.223	Jiangsu	
AS4134 No.31,Jin-rong Street	Changshu City	China	114.216.139.46	Jiangsu	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	114.215.73.44	Zhejiang	
AS9318 SK Broadband Co Ltd	Seoul (Toegy-e-ro)	Republic of Korea	114.204.73.50	Seoul	
AS9924 Taiwan Fixed Network, Telco and Network Service Provider.	Taipei	Taiwan	114.198.185.30	Taipei City	
AS4713 NTT Communications Corporation	Nagoya	Japan	114.187.192.81	Aichi	461-0019
AS4134 No.31,Jin-rong Street	Guiyang	China	114.139.103.216	Guizhou	
AS4134 No.31,Jin-rong Street	Beijing	China	114.106.180.151	Beijing	
AS4134 No.31,Jin-rong Street	Huangshan City	China	114.104.215.189	Anhui	
AS4134 No.31,Jin-rong Street	Hefei	China	114.101.91.191	Anhui	
AS4134 No.31,Jin-rong Street	Huainan	China	114.100.167.166	Anhui	
AS4837 CHINA UNICOM China169 Backbone	Daqing	China	113.6.157.20	Heilongjiang	
AS4837 CHINA UNICOM China169 Backbone	Wuhan	China	113.57.77.221	Hubei	
AS4837 CHINA UNICOM China169 Backbone	Harbin	China	113.3.83.140	Heilongjiang	

AS4134 No.31,Jin-rong Street	Taiyuan	China	113.25.181.156	Shanxi	
AS4837 CHINA UNICOM China169 Backbone	Dashiqiao	China	113.237.27.131	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Liaoyang	China	113.237.242.1	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	113.237.130.161	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Benxi	China	113.236.234.37	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Jinzhou	China	113.236.190.235	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Jinzhou	China	113.236.187.130	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Dalian	China	113.234.38.142	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Dalian	China	113.227.38.200	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Chongqing	China	113.204.96.144	Chongqing	
AS9919 New Century InfoComm Tech Co., Ltd.	Taipei	Taiwan	113.196.99.40	Taipei City	
AS4837 CHINA UNICOM China169 Backbone	Nanchang	China	113.195.212.103	Jiangxi	
AS4837 CHINA UNICOM China169 Backbone	Nanchang	China	113.194.190.222	Jiangxi	
AS4134 No.31,Jin-rong Street	Xi'an	China	113.140.197.97	Shaanxi	
AS9845 CJ Hello Co., Ltd.	Busan	Republic of Korea	113.130.142.13	Busan	
AS4134 No.31,Jin-rong Street	Dongying	China	113.122.87.97	Shandong	
AS4134 No.31,Jin-rong Street	Qingdao	China	113.120.81.172	Shandong	
AS4134 No.31,Jin-rong Street	Qingdao	China	113.120.124.34	Shandong	
AS4134 No.31,Jin-rong Street	Nanning	China	113.12.72.193	Guangxi	
AS4134 No.31,Jin-rong Street	Nanning	China	113.12.190.97	Guangxi	
AS17444 AS number for New World Telephone Ltd.	City of Victoria	Hong Kong	113.10.150.161	Central and Western District	
AS17623 China Unicom Shenzen network	Shenzhen	China	112.95.110.149	Guangdong	
AS17816 China Unicom IP network China169 Guangdong province	Guangzhou	China	112.93.41.47	Guangdong	
AS4837 CHINA UNICOM China169 Backbone	Suzhou	China	112.87.174.36	Jiangsu	

AS136011 ONE-STOP Computer Science and Tech Ltd	Guangzhou	China	112.75.186.191	Guangdong	
AS4134 No.31,Jin-rong Street	Haikou	China	112.66.173.105	Hainan	
AS9808 Guangdong Mobile Communication Co.Ltd.	Karamay	China	112.43.50.123	Xinjiang	
AS9808 Guangdong Mobile Communication Co.Ltd.	Ürümqi	China	112.43.178.253	Xinjiang	
AS24444 Shandong Mobile Communication Company Limited	Binzhou	China	112.37.230.27	Shandong	
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing	China	112.35.24.149	Beijing	
AS9808 Guangdong Mobile Communication Co.Ltd.	Hefei	China	112.29.143.19	Anhui	
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing (Xicheng Qu)	China	112.27.57.95	Beijing	
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing (Xicheng Qu)	China	112.26.250.24	Beijing	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	112.255.23.50	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	112.255.1.248	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	112.254.46.112	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	112.254.174.75	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	112.254.10.11	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	112.252.130.60	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Linyi	China	112.251.142.101	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Tengzhou	China	112.248.247.164	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Weihai	China	112.247.157.64	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Shouguang	China	112.243.232.178	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	112.242.60.134	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jining	China	112.236.159.76	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	112.233.209.26	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	112.232.21.161	Shandong	

AS4837 CHINA UNICOM China169 Backbone	Jinan	China	112.229.7.31	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	112.229.242.225	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Boshan	China	112.227.251.115	Shandong	
AS3786 LG DACOM Corporation	Seoul (Hangang-daero)	Republic of Korea	112.221.62.25	Seoul	
AS56046 China Mobile communications corporation	Suzhou	China	112.22.7.86	Jiangsu	
AS3786 LG DACOM Corporation	Seoul (Hangang-daero)	Republic of Korea	112.217.250.42	Seoul	
AS10036 DLIVE	Seoul (Songpa-daero 34-gil)	Republic of Korea	112.214.227.31	Seoul	
AS56046 China Mobile communications corporation	Changzhou	China	112.21.178.113	Jiangsu	
AS4837 CHINA UNICOM China169 Backbone	Chengdu	China	112.195.159.229	Sichuan	
AS4837 CHINA UNICOM China169 Backbone	Chengdu	China	112.192.10.161	Sichuan	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	112.186.193.155	Gyeonggi-do	
AS4766 Korea Telecom	Cheongju-si	Republic of Korea	112.186.165.59	North Chungcheong	
AS4766 Korea Telecom	Seoul	Republic of Korea	112.177.75.85	Seoul	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	112.177.38.117	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	112.173.133.56	Gyeonggi-do	
AS4766 Korea Telecom	Suwon	Republic of Korea	112.168.89.152	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	112.168.202.69	Gyeonggi-do	
AS4766 Korea Telecom	Cheongju-si	Republic of Korea	112.167.199.213	North Chungcheong	
AS4766 Korea Telecom	Hanam	Republic of Korea	112.162.91.180	Gyeonggi-do	
AS4766 Korea Telecom	Busan	Republic of Korea	112.162.209.114	Busan	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	112.151.62.20	Seoul	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	112.151.36.116	Seoul	
AS17858 LG POWERCOMM	Yangyang	Republic of Korea	112.150.119.102	Gangwon-do	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	112.146.42.215	Seoul	

AS4837 CHINA UNICOM China169 Backbone	Hefei	China	112.123.136.23	Anhui	
AS4837 CHINA UNICOM China169 Backbone	Hefei	China	112.123.120.200	Anhui	
AS4134 No.31,Jin-rong Street	Kunming	China	112.117.47.118	Yunnan	
AS4134 No.31,Jin-rong Street	Dali	China	112.116.163.7	Yunnan	
AS4134 No.31,Jin-rong Street	Yuxi	China	112.113.113.101	Yunnan	
AS4134 No.31,Jin-rong Street	Kunming	China	112.112.46.161	Yunnan	
AS4134 No.31,Jin-rong Street	Harbin	China	112.102.184.54	Heilongjiang	
AS4837 CHINA UNICOM China169 Backbone	Zunyi	China	111.85.97.241	Guizhou	
AS24444 Shandong Mobile Communication Company Limited	Jinan	China	111.37.143.112	Shandong	
AS24444 Shandong Mobile Communication Company Limited	Jining	China	111.34.158.191	Shandong	
AS3462 Data Communication Business Group	Yuanlin	Taiwan	111.253.166.196	Changhua	
AS45090 Shenzhen Tencent Computer Systems Company Limited	Beijing	China	111.231.101.190	Beijing	
AS45090 Shenzhen Tencent Computer Systems Company Limited	Beijing	China	111.230.168.175	Beijing	
AS56047 China Mobile communications corporation	Changsha	China	111.23.34.115	Hunan	
AS4134 No.31,Jin-rong Street	Qinhuangdao	China	111.227.147.191	Hebei	
AS4808 China Unicom Beijing Province Network	Beijing	China	111.205.92.113	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	111.204.142.242	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	111.201.119.30	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	111.199.6.133	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	111.193.95.65	Beijing	
AS4134 No.31,Jin-rong Street	Huanggang	China	111.183.122.18	Anhui	
AS4134 No.31,Jin-rong Street	Wuhan	China	111.172.11.207	Hubei	

AS24444 Shandong Mobile Communication Company Limited	Zibo	China	111.16.91.80	Shandong	
AS24444 Shandong Mobile Communication Company Limited	Tai'an	China	111.16.203.247	Shandong	
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing (Xicheng Qu)	China	111.13.24.211	Beijing	
AS4134 No.31,Jin-rong Street	Guiyang	China	111.120.178.60	Guizhou	
AS2516 KDDI CORPORATION	Tokyo	Japan	111.101.89.60	Tokyo	190-0031
AS9808 Guangdong Mobile Communication Co.Ltd.	Chongqing	China	111.10.49.16	Chongqing	
AS9318 SK Broadband Co Ltd	Suwon	Republic of Korea	110.9.199.119	Gyeonggi-do	
AS4134 No.31,Jin-rong Street	Fuzhou	China	110.88.36.93	Fujian	
AS4134 No.31,Jin-rong Street	Fuzhou	China	110.87.180.49	Fujian	
AS4134 No.31,Jin-rong Street	Longyan	China	110.84.255.65	Fujian	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	110.8.211.233	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	110.8.181.108	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Baotou	China	110.7.82.72	Inner Mongolia Autonomous Region	
AS4837 CHINA UNICOM China169 Backbone	Hailar	China	110.6.248.50	Inner Mongolia Autonomous Region	
AS45113 Shanxi Datong Coal Group Communication Co., Ltd	Taiyuan	China	110.51.192.99	Shanxi	
AS17864 TBROAD HANVIT BROADCASTING CO.,LTD.	Seoul	Republic of Korea	110.5.245.160	Seoul	
AS17839 CJ Hello Co., Ltd.	Seoul	Republic of Korea	110.47.19.18	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	110.255.71.129	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Beijing	China	110.251.119.172	Beijing	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	110.244.199.124	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	110.244.134.251	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	110.243.175.144	Hebei	

AS4837 CHINA UNICOM China169 Backbone	Hebei	China	110.242.3.203	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Yaocheng	China	110.231.23.73	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Yaocheng	China	110.231.102.94	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	110.230.11.70	Hebei	
AS24560 Bharti Airtel Ltd., Telemedia Services	Delhi	India	110.227.138.168	National Capital Territory of Delhi	110027
AS24560 Bharti Airtel Ltd., Telemedia Services	Kolkata	India	110.227.100.25	West Bengal	
AS4837 CHINA UNICOM China169 Backbone	Ordos	China	110.19.106.146	Inner Mongolia Autonomous Region	
AS4134 No.31,Jin-rong Street	Taiyuan	China	110.178.73.100	Shanxi	
AS18002 AS Number for Interdomain Routing	New Delhi	India	110.172.171.247	National Capital Territory of Delhi	110001
AS4837 CHINA UNICOM China169 Backbone	Wuhai	China	110.17.187.212	Inner Mongolia Autonomous Region	
AS4134 No.31,Jin-rong Street	Xining	China	110.167.22.249	Qinghai	
AS9605 NTT DOCOMO, INC.	Tokyo	Japan	110.161.51.32	Tokyo	190-0031
AS4788 TM Net, Internet Service Provider	Kuala Lumpur	Malaysia	110.159.139.76	Kuala Lumpur	55100
AS17974 PT Telekomunikasi Indonesia	Medan	Indonesia	110.137.25.71	North Sumatra	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	110.10.141.98	Seoul	
AS6830 Liberty Global Operations B.V.	Oberhausen	Germany	109.90.136.49	North Rhine-Westphalia	46149
AS15557 SFR SA	Nantes	France	109.9.167.143	Pays de la Loire	44000
AS35819 Bayanat Al-Oula For Network Services	Al Jubayl	Saudi Arabia	109.82.147.136	Eastern Province	
AS15557 SFR SA	Arles	France	109.8.142.2	Provence-Alpes-Côte d'Azur	13200
AS12767 T-Mobile Czech Republic a.s.	Otrokovice	Czechia	109.75.154.132	Zlín	765 02
AS15557 SFR SA	Toulon	France	109.30.28.101	Provence-Alpes-Côte d'Azur	83000
AS15557 SFR SA	Morestel	France	109.30.107.174	Auvergne-Rhone-Alpes	38510
AS15557 SFR SA	Montpellier	France	109.28.215.110	Occitanie	34090
AS1680 013 NetVision Ltd	Haifa	Israel	109.253.66.164	Haifa	
AS25513 OJS Moscow city telephone network	Moscow	Russia	109.252.156.142	Moscow	115408
AS15557 SFR SA	Rillieux-la-Pape	France	109.25.139.1	Auvergne-Rhone-Alpes	

AS206440 Business Consulting LLC	Cheboksary	Russia	109.248.202.172	Chuvashia	428000
AS25472 Wind Hellas Telecommunications SA	Athens	Greece	109.242.19.171	Attica	
AS15673 Teleseti Plus Ltd.	Ostrov	Russia	109.229.87.223	Pskovskaya Oblast'	181352
AS15557 SFR SA	La Colle-sur-Loup	France	109.22.199.90	Provence-Alpes-Côte d'Azur	06480
AS52026 TRUF d.o.o.	Belgrade	Serbia	109.206.115.17	Belgrade	
AS20860 iomart Cloud Services Limited.	Leeds	United Kingdom	109.203.108.14	England	
AS15557 SFR SA	Licques	France	109.20.64.241	Hauts-de-France	62850
AS50247 ITCOMP sp. z o.o	Zawiercie	Poland	109.196.84.93	Silesia	42-400
AS56330 JSC ER-Telecom Holding	Kurgan	Russia	109.195.131.168	Kurganskaya Oblast'	640011
AS29562 Kabel BW	Heilbronn	Germany	109.193.175.86	Baden-Württemberg Region	74072
AS35540 OVH SAS	Clichy-sous-Bois	France	109.190.69.118	Île-de-France	
AS15557 SFR SA	Villeneuve-le-Roi	France	109.19.22.17	Île-de-France	94290
AS12389 PJSC Rostelecom	Nizhniy Novgorod	Russia	109.184.204.249	Nizhegorodskaya Oblast'	603002
AS12389 PJSC Rostelecom	Samara	Russia	109.169.149.214	Samarskaya Oblast'	404146
AS29119 ServiHosting Networks S.L.	Cardona	Spain	109.167.21.5	Catalonia	08261
AS15557 SFR SA	Pont-de-l'Isere	France	109.16.77.95	Auvergne-Rhone-Alpes	26600
AS15557 SFR SA	Le Cendre	France	109.16.211.99	Auvergne-Rhone-Alpes	63670
AS5432 Proximus NV	Morlanwelz-Mariemont	Belgium	109.130.219.153	Wallonia	7140
AS5432 Proximus NV	Antwerp	Belgium	109.129.194.176	Flanders	
AS15557 SFR SA	Saint-Denis (La Plaine-Saint-Denis)	France	109.1.19.92	Île-de-France	
AS15557 SFR SA	Saint-Denis (La Plaine-Saint-Denis)	France	109.0.38.152	Île-de-France	
AS7018 AT&T; Services, Inc.	San Antonio	United States	108.80.69.110	Texas	78240
AS29838 Atlantic Metro Communications, LLC	New York	United States	108.60.146.83	New York	10013
AS19515 Oricom Internet	Longueuil	Canada	108.59.64.121	Quebec	J4K
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Worcester	United States	108.49.84.236	Massachusetts	01603
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Franklin	United States	108.49.24.177	Massachusetts	02038
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Laurel	United States	108.48.99.227	Maryland	20723
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Albany	United States	108.44.23.161	New York	12202

AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Fredericksburg	United States	108.44.149.183	Virginia	22407
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Elizabeth	United States	108.39.189.71	Pennsylvania	15037
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Hempstead	United States	108.30.246.134	New York	11550
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	West Mifflin	United States	108.3.95.12	Pennsylvania	15122
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Clay	United States	108.26.53.162	New York	13041
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	West Newton	United States	108.26.210.242	Massachusetts	02465
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Manhasset	United States	108.21.71.64	New York	11030
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Woodmere	United States	108.21.239.48	New York	11598
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Philadelphia	United States	108.2.76.96	Pennsylvania	19132
AS33363 BRIGHT HOUSE NETWORKS, LLC	Orlando	United States	108.189.186.237	Florida	32828
AS33363 BRIGHT HOUSE NETWORKS, LLC	Longwood	United States	108.188.17.11	Florida	32750
AS15003 Nobis Technology Group, LLC	Thousand Oaks	United States	108.187.95.145	California	91362
AS20001 Time Warner Cable Internet LLC	Fontana	United States	108.184.123.42	California	92336
AS11427 Time Warner Cable Internet LLC	Austin	United States	108.178.106.45	Texas	78704
AS55081 24 SHELLS	Piscataway	United States	108.175.167.110	New Jersey	08854
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Milton	United States	108.16.164.11	Delaware	19968
AS7922 Comcast Cable Communications, LLC	Sterling Heights	United States	107.5.139.241	Michigan	48312
AS7922 Comcast Cable Communications, LLC	Grand Rapids	United States	107.4.29.121	Michigan	49506
AS174 Cogent Communications	Chicago	United States	107.177.48.51	Illinois	60604
AS36352 ColoCrossing	Philadelphia	United States	107.173.214.38	Pennsylvania	19019
AS36352 ColoCrossing	Buffalo	United States	107.172.85.93	New York	14202

AS20248 Take 2 Hosting, Inc.	Thousand Oaks	United States	107.163.72.103	California	91362
AS33363 BRIGHT HOUSE NETWORKS, LLC	Marion	United States	107.147.58.2	Indiana	46952
AS33363 BRIGHT HOUSE NETWORKS, LLC	Kissimmee	United States	107.145.233.196	Florida	34759
AS16787 Charter Communications	Chicago	United States	107.14.113.35	Illinois	
AS4134 No.31,Jin-rong Street	Chongqing	China	106.83.122.247	Chongqing	
AS133118 China Unicom IP network	Beijing	China	106.74.229.98	Beijing	
AS4134 No.31,Jin-rong Street	Kunming	China	106.59.103.40	Yunnan	
AS4134 No.31,Jin-rong Street	Yinchuan	China	106.45.81.74	Ningsia Hui Autonomous Region	
AS4134 No.31,Jin-rong Street	Yinchuan	China	106.45.220.192	Ningsia Hui Autonomous Region	
AS4134 No.31,Jin-rong Street	Changsha	China	106.36.35.119	Hunan	
AS4134 No.31,Jin-rong Street	Guiyang	China	106.32.87.95	Guizhou	
AS3786 LG DACOM Corporation	Seoul (Hangang-daero)	Republic of Korea	106.253.249.161	Seoul	
AS3786 LG DACOM Corporation	Seoul (Hangang-daero)	Republic of Korea	106.252.86.213	Seoul	
AS3786 LG DACOM Corporation	Seoul (Hangang-daero)	Republic of Korea	106.248.118.210	Seoul	
AS3786 LG DACOM Corporation	Soeul	Republic of Korea	106.240.121.89	Chungcheongnam-do	
AS24560 Bharti Airtel Ltd., Telemedia Services	Hyderabad	India	106.212.225.215	Telangana	
AS24560 Bharti Airtel Ltd., Telemedia Services	New Delhi	India	106.212.145.112	National Capital Territory of Delhi	
AS4134 No.31,Jin-rong Street	Guangzhou	China	106.125.199.44	Guangdong	
AS4134 No.31,Jin-rong Street	Guangzhou	China	106.125.189.14	Guangdong	
AS4134 No.31,Jin-rong Street	Taixing	China	106.110.135.21	Jiangsu	
AS2905 TICSAS-ASN	Amanzimtoti	South Africa	105.211.193.71	KwaZulu-Natal	
AS36925 Orange Maroc	Casablanca	Morocco	105.190.8.146	Region du Grand Casablanca	
AS37119 UNITEL SA	Luanda	Angola	105.174.4.233	Luanda Province	
AS6713 Itissalat Al-MAGHRIB	Rabat	Morocco	105.132.155.215	Rabat-Sale-Kenitra	
AS6713 Itissalat Al-MAGHRIB	Rabat	Morocco	105.129.77.11	Region de Rabat-Sale-Zemmour-Zaer	

AS6713 Itissalat Al-MAGHRIB	Azrou	Morocco	105.128.98.129	Beni Mellal-Khenifra	
AS3257 GTT Communications Inc.	Cambridge	United States	104.99.34.108	Massachusetts	02142
AS20940 Akamai International B.V.	Cambridge	United States	104.98.36.222	Massachusetts	02142
AS33651 Comcast Cable Communications, LLC	Cambridge (Mit)	United States	104.96.126.46	Massachusetts	
AS4771 Spark New Zealand Trading Ltd.	Cambridge	United States	104.95.168.11	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	104.93.188.89	Massachusetts	02142
AS2914 NTT America, Inc.	Cambridge	United States	104.88.9.144	Massachusetts	02142
AS2914 NTT America, Inc.	Cambridge	United States	104.88.49.7	Massachusetts	02142
AS2914 NTT America, Inc.	Cambridge	United States	104.88.18.251	Massachusetts	02142
AS12956 TELEFONICA Telefonica Wholesale Network	Cambridge	United States	104.88.123.123	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	104.86.50.72	North Holland	1091
AS33651 Comcast Cable Communications, LLC	Santa Clara	United States	104.86.202.74	California	
AS20940 Akamai International B.V.	Amsterdam	Netherlands	104.85.39.152	North Holland	1091
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	104.83.179.25	North Holland	1091
AS3292 Tele Danmark	Amsterdam	Netherlands	104.77.244.118	North Holland	1091
AS20940 Akamai International B.V.	Beverly Hills	United States	104.75.44.58	California	90210
AS20940 Akamai International B.V.	Cambridge	United States	104.75.27.83	Massachusetts	02142
AS20940 Akamai International B.V.	Beverly Hills	United States	104.74.26.39	California	90211
AS20940 Akamai International B.V.	Cambridge	United States	104.74.194.182	Massachusetts	02142
AS1299 Telia Company AB	Southfield	United States	104.71.212.191	Michigan	48086
AS20940 Akamai International B.V.	Cambridge	United States	104.67.87.221	Massachusetts	02142
AS7470 TRUE INTERNET Co.,Ltd.	Cambridge	United States	104.65.101.236	Massachusetts	02142
AS7018 AT&T; Services, Inc.	Austin	United States	104.55.110.6	Texas	78728
AS20001 Time Warner Cable Internet LLC	Sierra Madre	United States	104.35.171.91	California	91024
AS20001 Time Warner Cable Internet LLC	Torrance	United States	104.34.240.128	California	90503
AS20001 Time Warner Cable Internet LLC	South Gate	United States	104.33.251.208	California	90280

AS20001 Time Warner Cable Internet LLC	Palmdale	United States	104.33.191.178	California	93550
AS13335 Cloudflare Inc	Montreal	Canada	104.31.253.21	Quebec	
AS13335 Cloudflare Inc	Montreal	Canada	104.30.7.100	Quebec	
AS13335 Cloudflare Inc	Montreal	Canada	104.30.230.3	Quebec	
AS13335 Cloudflare Inc	Montreal	Canada	104.29.166.1	Quebec	
AS13335 Cloudflare Inc	Montreal	Canada	104.27.211.191	Quebec	
AS13335 Cloudflare Inc	Montreal	Canada	104.27.15.231	Quebec	
AS18779 EGIHosting	San Jose	United States	104.252.27.133	California	95113
AS32567 GameStop, Inc.	Grapevine	United States	104.251.3.129	Texas	76051
AS21351 Canal + Telecom SAS	Marigot	Saint Martin	104.250.7.251		
AS30466 Cable Axion Digitel Inc.	Stratford	Canada	104.244.69.178	Ontario	N4Z
AS11351 Time Warner Cable Internet LLC	Oswego	United States	104.229.87.122	New York	13126
AS5650 Frontier Communications of America, Inc.	Hartford	United States	104.226.20.81	Connecticut	06114
AS8100 QuadraNet, Inc	Los Angeles	United States	104.223.75.185	California	90014
AS11404 vanoppen.biz LLC	Lincoln	United States	104.220.152.5	California	95648
AS40676 Psychz Networks	Walnut	United States	104.217.111.166	California	91789
AS40676 Psychz Networks	Walnut	United States	104.216.174.253	California	91789
AS18978 Enzu Inc	Los Angeles	United States	104.202.68.173	California	90017
AS18978 Enzu Inc	Los Angeles	United States	104.202.113.219	California	90017
AS22552 eSited Solutions	Los Angeles	United States	104.201.12.76	California	90017
AS21769 Colocation America Corporation	New York	United States	104.200.254.96	New York	10006
AS13335 Cloudflare Inc	Montreal	Canada	104.20.53.44	Quebec	
AS15169 Google LLC	Mountain View	United States	104.199.192.165	California	94043
AS15169 Google LLC	Mountain View	United States	104.197.176.101	California	94043
AS15169 Google LLC	Mountain View	United States	104.196.216.76	California	94043
AS203098 Tesonet Ltd	Kansas City	United States	104.193.215.252	Missouri	
AS25754 Blueprint America, Inc.	Chaska	United States	104.193.152.225	Minnesota	55318
AS27176 DataWagon LLC	Rye	United States	104.192.0.67	New York	10580
AS13335 Cloudflare Inc	Montreal	Canada	104.19.126.29	Quebec	
AS13335 Cloudflare Inc	Montreal	Canada	104.18.176.254	Quebec	
AS20001 Time Warner Cable Internet LLC	Los Angeles	United States	104.175.7.213	California	90039
AS20001 Time Warner Cable Internet LLC	Los Angeles	United States	104.173.237.194	California	90034
AS20001 Time Warner Cable Internet LLC	Oxnard	United States	104.172.136.72	California	93030

AS16628 Dedicated Fiber Communications, LLC (DedFiberCo)	Wilmington	United States	104.171.154.197	Delaware	19801
AS13335 Cloudflare Inc	Montreal	Canada	104.17.12.24	Quebec	
AS13335 Cloudflare Inc	Montreal	Canada	104.17.116.248	Quebec	
AS18779 EGIHosting	San Jose	United States	104.165.59.218	California	95113
AS18779 EGIHosting	San Jose	United States	104.164.73.135	California	95113
AS13335 Cloudflare Inc	Montreal	Canada	104.16.175.250	Quebec	
AS15169 Google LLC	Mountain View	United States	104.154.114.102	California	94043
AS18712 SureWest Kansas Operations, LLC	Lenexa	United States	104.152.124.249	Kansas	
AS22611 InMotion Hosting, Inc.	Los Angeles	United States	104.152.108.65	California	90045
AS18978 Enzu Inc	Los Angeles	United States	104.151.99.143	California	90017
AS13739 Datacenter IP, LLC	Salt Lake City	United States	104.143.75.188	Utah	84111
AS33132 Fibernet Direct	Columbia	United States	104.143.169.19	South Carolina	29201
AS33363 BRIGHT HOUSE NETWORKS, LLC	Sanford	United States	104.136.38.4	Florida	32771
AS33363 BRIGHT HOUSE NETWORKS, LLC	Brooksville	United States	104.136.255.135	Florida	34602
AS14061 DigitalOcean, LLC	Clifton	United States	104.131.178.225	New Jersey	07014
AS14061 DigitalOcean, LLC	San Francisco	United States	104.131.144.31	California	94124
AS27357 Rackspace Ltd.	San Antonio	United States	104.130.63.136	Texas	78218
AS22995 Xplornet Communications Inc.	Ottawa	Canada	104.129.102.9	Ontario	K1A
AS30279 Virtuzo	Jakarta	Indonesia	104.128.134.237	Jakarta	
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	104.127.63.238	North Holland	1091
AS28573 CLARO S.A.	Cambridge	United States	104.121.53.176	Massachusetts	02142
AS2828 MCI Communications Services, Inc. d/b/a Verizon Business	Cambridge	United States	104.117.93.144	Massachusetts	02142
AS20940 Akamai International B.V.	Cambridge	United States	104.117.36.161	Massachusetts	02142
AS2914 NTT America, Inc.	Cambridge	United States	104.115.147.55	Massachusetts	02142
AS17072 TOTAL PLAY TELECOMUNICACIONES SA DE CV	Cambridge	United States	104.113.170.117	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	104.109.227.240	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	104.108.41.44	North Holland	1091

AS4818 DiGi Telecommunications Sdn. Bhd.	Cambridge	United States	104.101.29.207	Massachusetts	02142
AS136765 Desh Online	Dhaka	Bangladesh	103.95.127.254	Dhaka Division	1000
AS134552 Geotel Bangladesh IT Ltd.	Dhaka	Bangladesh	103.93.93.5	Dhaka Division	1212
AS136561 Md Rezaul Karim t/a Sun Cybercafe	Chittagong	Bangladesh	103.92.218.206	Chittagong	4000
AS56241 PT METRASAT	Baratjaya	Indonesia	103.86.145.197	Banten	
AS59162 U.P. COMMUNICATION SERVICES PVT LTD	Agra	India	103.84.63.210	Uttar Pradesh	282002
AS135852 Galaxynet Connections Private Limited	Islampur	India	103.82.156.218	West Bengal	733202
AS38478 EDIS GmbH	Beijing	China	103.81.183.220	Beijing Shi	
AS58965 ANJANI BROADBAND SOLUTIONS PVT.LTD.	Delhi	India	103.77.43.187	National Capital Territory of Delhi	110018
AS131447 POPIDC powered by CSLoxinfo	Bangkok (Khwaeng Suan Luang)	Thailand	103.7.58.61	Bangkok	
AS58583 Digiweb Australia PTY	Auckland	New Zealand	103.7.169.239	Auckland	1150
AS134411 Manhattan Associates (India) Development Centre Pvt. Ltd.	Bengaluru	India	103.63.148.216	Karnataka	
AS134032 INFONET COMM ENTERPRISES	Tiruchi	India	103.58.117.146	Tamil Nadu	
AS132839 POWER LINE (HK) CO., LIMITED	Tsuen Wan	Hong Kong	103.55.130.169	Tsuen Wan	
AS56081 Digital Hybrid Pty Ltd	South Penrith	Australia	103.5.90.205	New South Wales	
AS63509 PT Matra Mandiri Prima	Bogor	Indonesia	103.41.123.174	West Java	
AS56030 Voyager Internet Ltd.	Parnell	New Zealand	103.4.136.140	Auckland	1149
AS18002 AS Number for Interdomain Routing	Noida	India	103.38.71.214	Uttar Pradesh	201301
AS18403 The Corporation for Financing & Promoting Technology	Hanoi	Vietnam	103.35.66.203	Thanh Pho Ha Noi	
AS24441 CityLink Corporation, LTD	Phnom Penh	Cambodia	103.28.243.42	Phnom Penh	
AS58906 Shivansh Infotech pvt Ltd	Dehradun	India	103.248.122.162	Uttarakhand	248001
AS132141 Penthouse	Mandaluyong City	Philippines	103.247.252.54	National Capital Region	1503
AS18394 Universitas Pendidikan Indonesia	Bandung	Indonesia	103.23.244.12	West Java	

AS9829 National Internet Backbone	Mysore	India	103.213.34.101	Karnataka	570020
AS135291 APPTIO SINGAPORE PTE. LTD.	London	United Kingdom	103.212.168.100	England	EC1V
AS9829 National Internet Backbone	Hyderabad	India	103.204.1.101	Telangana	
AS9829 National Internet Backbone	Thrissur	India	103.194.65.63	Kerala	680001
AS136869 PT. LIMA MENARA BINTANG	Jakarta	Indonesia	103.104.205.211	Jakarta	
AS37457 Telkom-Internet	Summerstrand	South Africa	102.248.140.167	Eastern Cape	6001
AS37356 O-Tel	Ebene CyberCity	Mauritius	102.177.32.241	Plaines Wilhems District	
AS4812 China Telecom (Group)	Shanghai	China	101.88.224.219	Shanghai	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	101.73.155.117	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hangzhou	China	101.71.248.154	Zhejiang	
AS4837 CHINA UNICOM China169 Backbone	Hangzhou	China	101.69.155.151	Zhejiang	
AS4837 CHINA UNICOM China169 Backbone	Wenzhou	China	101.65.188.23	Zhejiang	
AS4766 Korea Telecom	Seoul (Gasan-dong)	Republic of Korea	101.55.96.91	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Langfang	China	101.30.42.159	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	101.25.244.160	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	101.25.237.110	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	101.25.179.226	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	101.23.156.72	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	101.21.251.32	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	101.21.239.41	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	101.21.164.144	Hebei	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	101.200.181.95	Zhejiang	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	101.132.19.180	Zhejiang	
AS23969 TOT Public Company Limited	Bang Khae	Thailand	101.108.131.62	Bangkok	10160
AS56300 MyRepublic Ltd.	Singapore	Singapore	101.100.189.186	Central Singapore Community Development Council	

AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Jersey City	United States	100.8.213.179	New Jersey	07307
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Bridgewater	United States	100.8.196.146	New Jersey	08807
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Summit	United States	100.8.104.94	New Jersey	07901
AS35908 Krypt Technologies	Orange	United States	100.43.138.251	California	92867
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Poughkeepsie	United States	100.40.212.244	New York	12603
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Selkirk	United States	100.4.180.24	New York	12158
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	The Bronx	United States	100.38.21.127	New York	10463
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Staten Island	United States	100.38.205.183	New York	10314
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Staten Island	United States	100.37.66.233	New York	10312
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Laurel	United States	100.36.71.20	Maryland	20707
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Arlington	United States	100.36.56.9	Virginia	22202
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Warminster	United States	100.34.94.113	Pennsylvania	18974
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Staten Island	United States	100.33.132.93	New York	10306
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Springfield	United States	100.15.74.97	Virginia	22153
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Saint Albans	United States	100.12.231.86	New York	11412
AS4134 No.31,Jin-rong Street	Jinzhong	China	1.69.8.47	Zhejiang	
AS4837 CHINA UNICOM China169 Backbone	Harbin	China	1.62.44.37	Heilongjiang	
AS4837 CHINA UNICOM China169 Backbone	Harbin	China	1.62.199.57	Heilongjiang	
AS4134 No.31,Jin-rong Street	Yinchuan	China	1.50.189.171	Ningsia Hui Autonomous Region	

AS4134 No.31,Jin-rong Street	Yinchuan	China	1.50.138.87	Ningsia Hui Autonomous Region	
AS4837 CHINA UNICOM China169 Backbone	Baotou	China	1.31.177.177	Inner Mongolia Autonomous Region	
AS4837 CHINA UNICOM China169 Backbone	Hohhot	China	1.30.167.142	Inner Mongolia Autonomous Region	
AS4837 CHINA UNICOM China169 Backbone	Hohhot	China	1.27.58.28	Inner Mongolia Autonomous Region	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	1.255.22.100	Seoul	
AS9318 SK Broadband Co Ltd	Busan	Republic of Korea	1.253.229.22	Busan	
AS9318 SK Broadband Co Ltd	Busan	Republic of Korea	1.252.250.64	Busan	
AS9318 SK Broadband Co Ltd	Goyang-si	Republic of Korea	1.251.190.244	Gyeonggi-do	
AS4837 CHINA UNICOM China169 Backbone	Baotou	China	1.25.173.122	Inner Mongolia Autonomous Region	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	1.249.106.149	Seoul	
AS9318 SK Broadband Co Ltd	Daejeon	Republic of Korea	1.245.218.97	Daejeon	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	1.245.209.70	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	1.241.228.235	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	1.237.58.238	Seoul	
AS4665 Yonsei University	Seoul	Republic of Korea	1.233.208.138	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	1.232.137.36	Seoul	
AS9318 SK Broadband Co Ltd	Busan	Republic of Korea	1.226.159.198	Busan	
AS3786 LG DACOM Corporation	Namyangju	Republic of Korea	1.223.84.94	Gyeonggi-do	
AS45528 Tikona Inifinet Ltd.	Varanasi	India	1.22.40.39	Uttar Pradesh	221001
AS3786 LG DACOM Corporation	Busan	Republic of Korea	1.218.242.70	Busan	
AS3786 LG DACOM Corporation	Seoul (Sowol-ro 2-gil)	Republic of Korea	1.211.53.162	Seoul	
AS3786 LG DACOM Corporation	Seoul (Hangang-daero)	Republic of Korea	1.209.58.9	Seoul	
AS4134 No.31,Jin-rong Street	Guiyang	China	1.207.227.40	Guizhou	
AS4134 No.31,Jin-rong Street	Guiyang	China	1.207.132.158	Guizhou	

AS4134 No.31,Jin-rong Street	Zhengzhou	China	1.196.254.166	Henan	
AS4134 No.31,Jin-rong Street	Zhengzhou	China	1.195.52.147	Henan	
AS4134 No.31,Jin-rong Street	Zhengzhou	China	1.195.3.121	Henan	
AS4837 CHINA UNICOM China169 Backbone	Lanxi	China	1.190.115.50	Heilongjiang	
AS4134 No.31,Jin-rong Street	Hohhot	China	1.181.132.23	Inner Mongolia Autonomous Region	
AS9845 CJ Hello Co., Ltd.	Seoul (Mokdongseo-ro)	Republic of Korea	1.176.126.43	Seoul	
AS3462 Data Communication Business Group	Taipei	Taiwan	1.164.145.89	Taipei City	
AS38091 CJ Hello Co., Ltd.	Seoul	Republic of Korea	1.11.79.176	Seoul	