

Tue Feb 27 10:47:30 2018

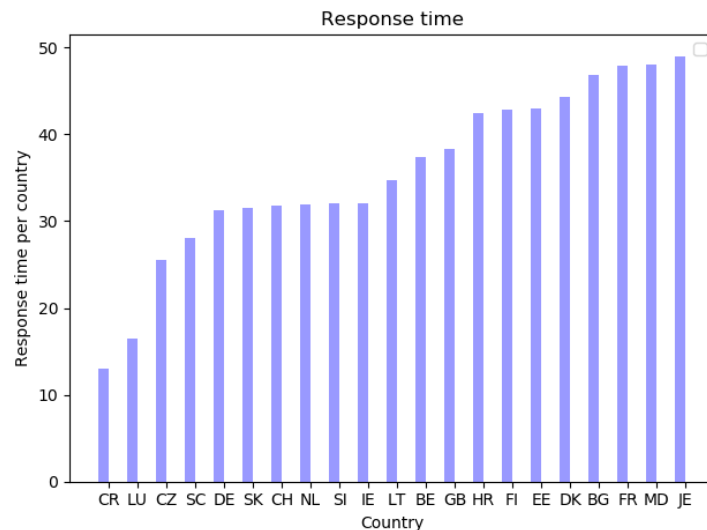
Misc-Stats:

Totally pinged IP-Adresses: 60000
Responding IP-Adresses: 2761
Not responding IP-Adresses: 57239
Percentage: 4.602

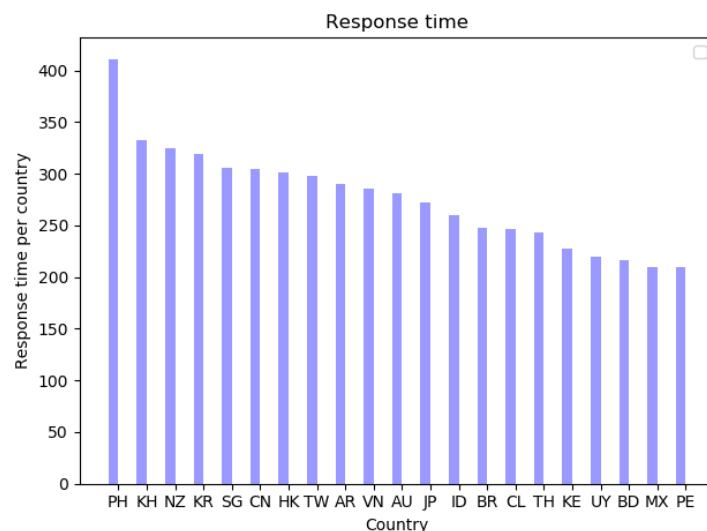
Time-Stats:

The average response time was 132.28

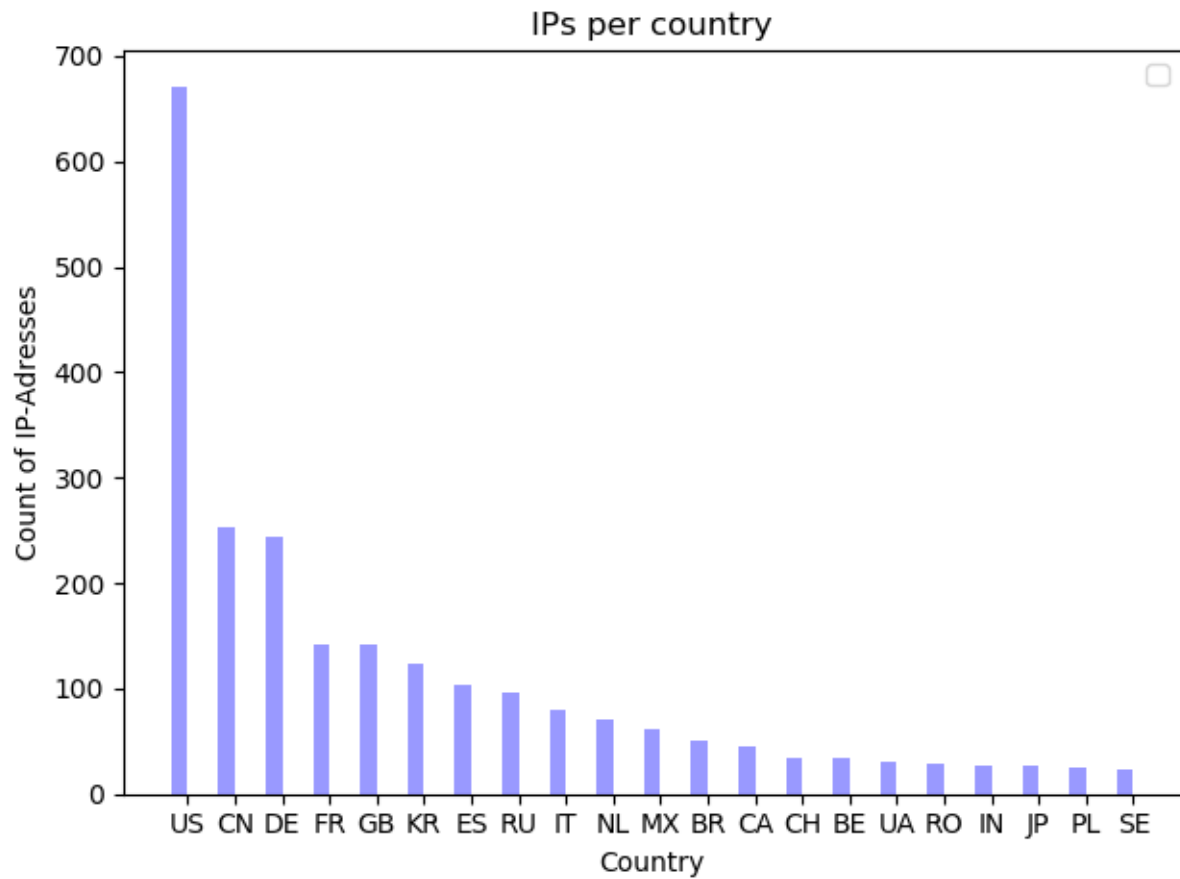
Average response time for every country (ASCENDING):



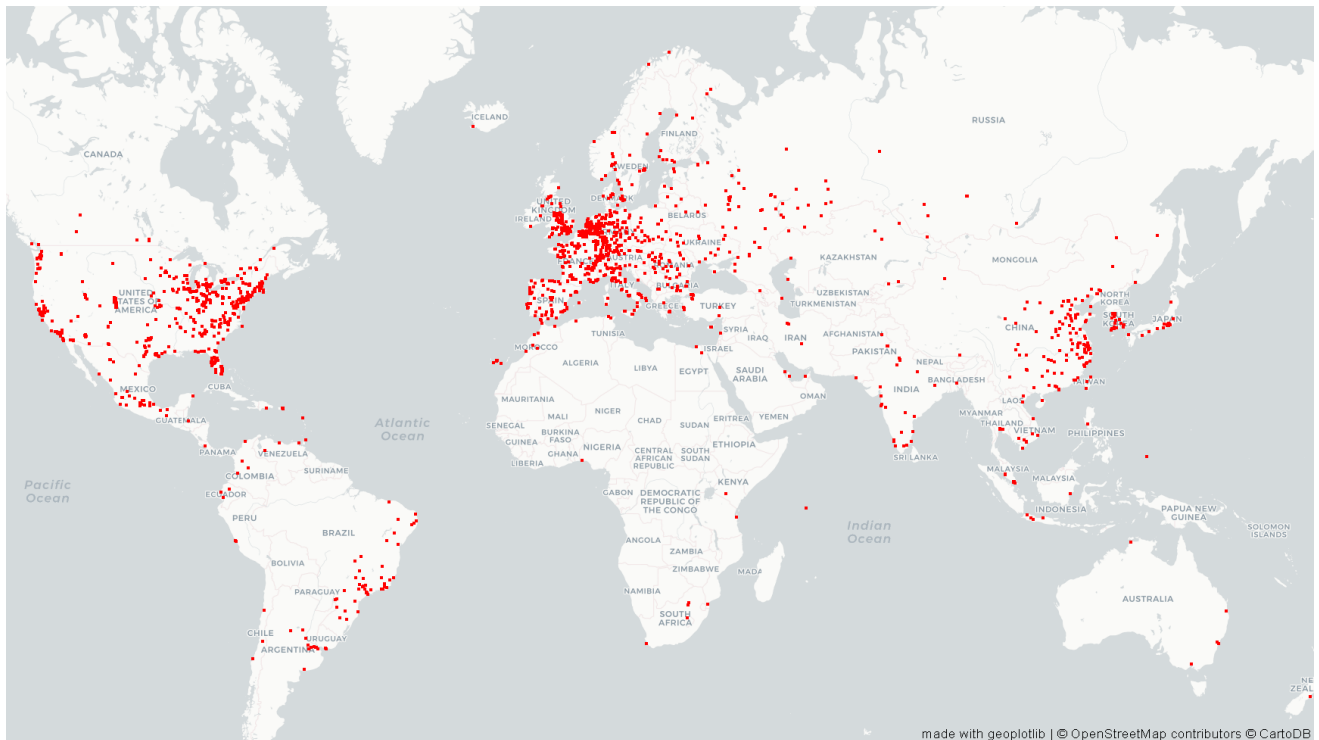
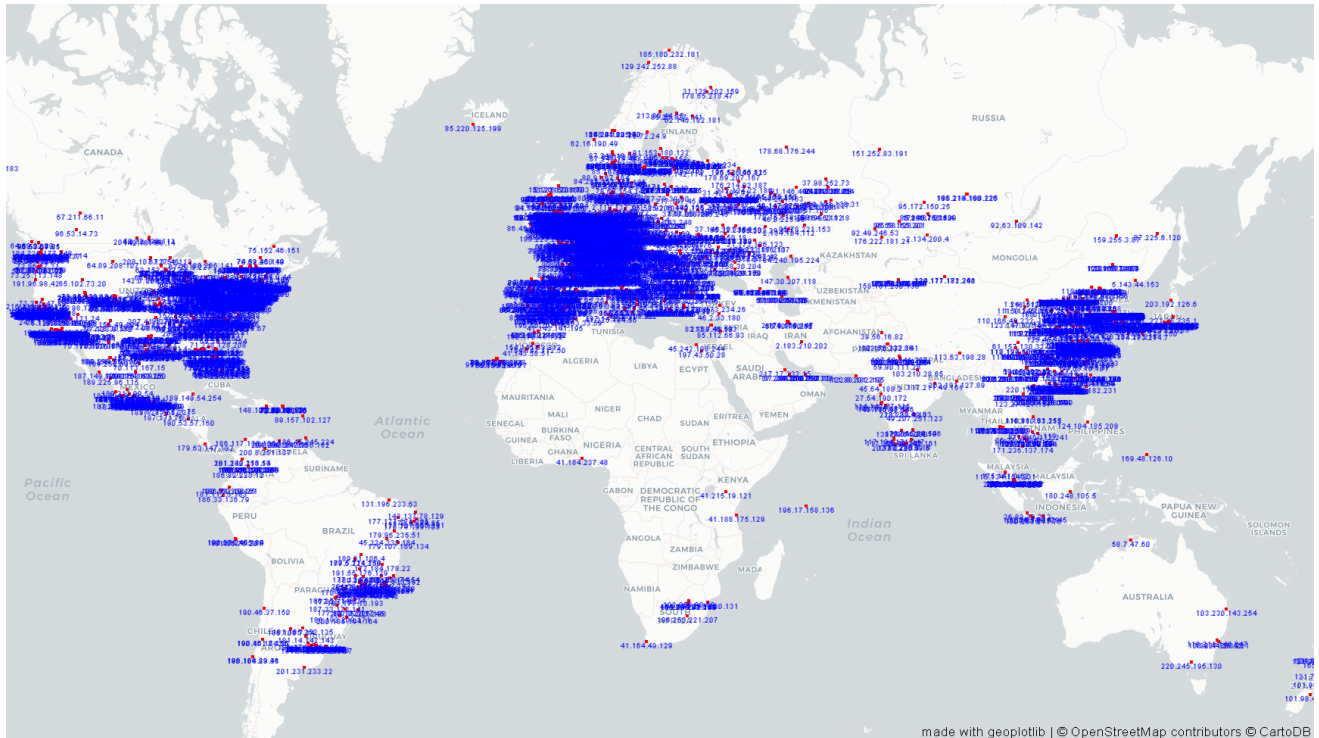
Average response time for every country (DESCENDING):



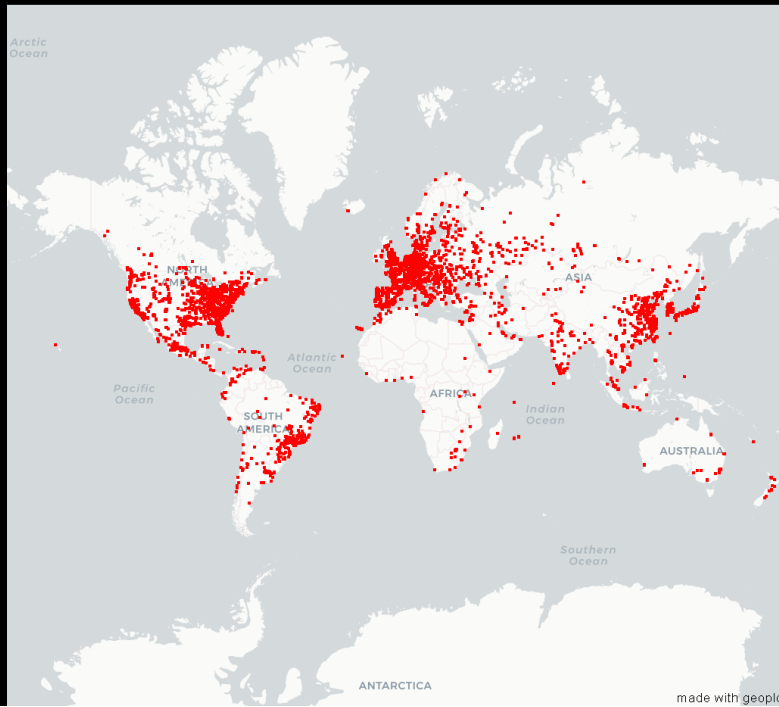
The dispersal of the responding IPs to the countrys:



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.	Brantford	Canada	99.252.179.38	Ontario	N3S
AS812 Rogers Communications Canada Inc.	Mississauga	Canada	99.250.113.83	Ontario	L5G
AS7018 AT&T; Services, Inc.	Greenbrier	United States	99.119.227.110	Arkansas	72058
AS7018 AT&T; Services, Inc.	Belleville	United States	99.11.1.134	Illinois	62223
AS6389 BellSouth.net Inc.	Cleveland	United States	98.68.169.114	Tennessee	37312
AS10796 Time Warner Cable Internet LLC	Tiffin	United States	98.28.105.112	Ohio	44883
AS7922 Comcast Cable Communications, LLC	City of Angels	United States	98.255.164.208	California	95222
AS7922 Comcast Cable Communications, LLC	Hialeah	United States	98.254.251.123	Florida	33014
AS7922 Comcast Cable Communications, LLC	Port Saint Lucie	United States	98.254.169.196	Florida	34986
AS7922 Comcast Cable Communications, LLC	Fraser	United States	98.243.195.192	Michigan	48026
AS7922 Comcast Cable Communications, LLC	Panama City	United States	98.230.57.133	Florida	32401
AS7922 Comcast Cable Communications, LLC	Hooksett	United States	98.229.140.226	New Hampshire	03106
AS7922 Comcast Cable Communications, LLC	Chicago Heights	United States	98.228.34.76	Illinois	60411
AS7922 Comcast Cable Communications, LLC	Elkhart	United States	98.226.132.113	Indiana	46514
AS7029 Windstream Communications LLC	Doniphan	United States	98.22.34.238	Missouri	63935
AS7922 Comcast Cable Communications, LLC	Medway	United States	98.217.4.30	Massachusetts	02053
AS7922 Comcast Cable Communications, LLC	Rockford	United States	98.212.27.130	Illinois	61107
AS7922 Comcast Cable Communications, LLC	Port Saint Lucie	United States	98.211.150.213	Florida	34953
AS7922 Comcast Cable Communications, LLC	San Mateo	United States	98.207.203.35	California	94402
AS7922 Comcast Cable Communications, LLC	Washington	United States	98.204.31.40	District of Columbia	20011
AS7922 Comcast Cable Communications, LLC	Draper	United States	98.202.90.127	Utah	84020
AS7922 Comcast Cable Communications, LLC	Houston	United States	98.201.171.23	Texas	77082
AS7922 Comcast Cable Communications, LLC	Houston	United States	98.195.27.124	Texas	77018

AS7922 Comcast Cable Communications, LLC	White House	United States	98.193.193.56	Tennessee	37188
AS7922 Comcast Cable Communications, LLC	Schererville	United States	98.193.123.251	Indiana	46375
AS22773 Cox Communications Inc.	Roanoke	United States	98.163.3.192	Virginia	24015
AS32392 The Endurance International Group, Inc.	Burlington	United States	98.131.242.55	Massachusetts	01803
AS33588 Charter Communications	Grand Junction	United States	98.127.209.222	Colorado	81501
AS11426 Time Warner Cable Internet LLC	Apex	United States	98.122.191.32	North Carolina	27502
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Jamaica	United States	98.113.196.18	New York	11434
AS20115 Charter Communications	Paxton	United States	97.95.186.131	Massachusetts	01612
AS20115 Charter Communications	Granbury	United States	97.93.199.179	Texas	76048
AS209 Qwest Communications Company, LLC	Cedar Rapids	United States	97.127.144.217	Iowa	52404
AS209 Qwest Communications Company, LLC	Albuquerque	United States	97.123.9.172	New Mexico	87107
AS209 Qwest Communications Company, LLC	Colorado Springs	United States	97.121.148.58	Colorado	80918
AS209 Qwest Communications Company, LLC	Denver	United States	97.118.113.74	Colorado	80239
AS209 Qwest Communications Company, LLC	Minneapolis	United States	97.116.59.166	Minnesota	55404
AS7922 Comcast Cable Communications, LLC	Kokomo	United States	96.82.38.62	Indiana	46902
AS33363 BRIGHT HOUSE NETWORKS, LLC	Lakeland	United States	96.59.180.250	Florida	33801
AS6327 Shaw Communications Inc.	Surrey	Canada	96.53.69.25	British Columbia	V4N
AS6327 Shaw Communications Inc.	Surrey	Canada	96.53.67.81	British Columbia	V4N
AS6327 Shaw Communications Inc.	Calgary	Canada	96.53.14.73	Alberta	T2K
AS20115 Charter Communications	St Louis	United States	96.35.138.81	Missouri	63108
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Stow	United States	96.252.92.100	Massachusetts	01775

AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Mamaroneck	United States	96.250.210.124	New York	10543
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Bayside	United States	96.250.127.176	New York	11361
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Davidsonville	United States	96.244.91.5	Maryland	21035
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Galesville	United States	96.244.193.35	Maryland	20778
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Annapolis	United States	96.244.185.219	Maryland	21401
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Randallstown	United States	96.244.119.6	Maryland	21133
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Rockville	United States	96.241.147.24	Maryland	20850
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Dedham	United States	96.233.98.21	Massachusetts	02026
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Hopedale	United States	96.230.212.10	Massachusetts	01747
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Natick	United States	96.230.200.165	Massachusetts	01760
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Lynn	United States	96.230.133.60	Massachusetts	01902
AS63949 Linode, LLC	Dallas	United States	96.126.115.200	Texas	75270
AS6830 Liberty Global Operations B.V.	Haarlem	Netherlands	95.97.68.250	North Holland	2031
AS12389 PJSC Rostelecom	Saransk	Russia	95.83.38.139	Respublika Mordoviya	430031
AS12389 PJSC Rostelecom	Cheboksary	Russia	95.81.201.130	Chuvashia	
AS51819 JSC ER-Telecom Holding	Orenburg	Russia	95.78.221.153	Orenburgskaya Oblast'	460000
AS6830 Liberty Global Operations B.V.	Sinaia	Romania	95.77.139.189	Prahova	106100
AS6830 Liberty Global Operations B.V.	Suceava	Romania	95.76.85.94	Suceava	720001
AS12389 PJSC Rostelecom	Belgorod	Russia	95.71.50.18	Belgorodskaya Oblast'	308009
AS12389 PJSC Rostelecom	Ulyanovsk	Russia	95.68.141.74	Ulyanovsk Oblast	432030
AS34867 Cosmonova LLC	Kiev	Ukraine	95.67.48.161	Kyiv City	02094
AS8386 Vodafone Net iletisim Hizmetleri Anonim Sirketi	Istanbul	Turkey	95.65.140.69	Istanbul	

AS9198 JSC Kazakhtelecom	Pavlodar	Kazakhstan	95.58.155.201	Pavlodar Oblysy	
AS9198 JSC Kazakhtelecom	Pavlodar	Kazakhstan	95.58.128.93	Pavlodar Oblysy	
AS9198 JSC Kazakhtelecom	Almaty	Kazakhstan	95.57.245.134	Almaty Qalasy	
AS12389 PJSC Rostelecom	Vologda	Russia	95.53.140.81	Vologodskaya Oblast'	160000
AS12389 PJSC Rostelecom	Kaliningrad	Russia	95.52.92.104	Kaliningradskaya Oblast'	
AS9145 EWE-Tel GmbH	Bremen	Germany	95.33.7.199	Bremen	28215
AS9145 EWE-Tel GmbH	Meppen	Germany	95.33.212.198	Lower Saxony	49716
AS12389 PJSC Rostelecom	Voronezh	Russia	95.32.236.250	Voronezhskaya Oblast'	394006
AS8402 VimpelCom	Moscow	Russia	95.26.40.89	Moscow	102128
AS3269 Telecom Italia	Lamezia Terme	Italy	95.255.40.129	Calabria	88046
AS3269 Telecom Italia	Pistoia	Italy	95.253.185.76	Tuscany	51100
AS3269 Telecom Italia	Nuoro	Italy	95.251.81.43	Sardinia	08100
AS3269 Telecom Italia	Palermo	Italy	95.250.57.141	Sicily	90124
AS3269 Telecom Italia	Prato	Italy	95.249.138.89	Tuscany	59100
AS3269 Telecom Italia	Florence	Italy	95.246.133.143	Tuscany	50129
AS3269 Telecom Italia	Brescia	Italy	95.245.98.163	Lombardy	25100
AS3269 Telecom Italia	Bisignano	Italy	95.245.19.156	Calabria	87043
AS3269 Telecom Italia	Empoli	Italy	95.243.208.19	Tuscany	50053
AS3269 Telecom Italia	Porto Garibaldi	Italy	95.242.198.82	Emilia-Romagna	44029
AS3269 Telecom Italia	Rome	Italy	95.238.26.102	Latium	00134
AS3269 Telecom Italia	Rosignano Solvay-Castiglione	Italy	95.238.200.32	Tuscany	57016
AS3269 Telecom Italia	Brescia	Italy	95.237.85.127	Lombardy	25123
AS3269 Telecom Italia	Venice	Italy	95.237.245.131	Veneto	30125
AS3269 Telecom Italia	Milan	Italy	95.237.154.177	Lombardy	20128
AS3269 Telecom Italia	Ancona	Italy	95.235.69.68	The Marches	60121
AS12479 Orange Espagne SA	Alcobendas	Spain	95.22.179.247	Madrid	
AS12715 Orange Espagne S.A.U.	Titulcia	Spain	95.22.12.76	Madrid	28359
AS60781 LeaseWeb Netherlands B.V.	Amsterdam	Netherlands	95.211.1.225	North Holland	
AS15600 Quickline AG	Burgdorf	Switzerland	95.174.254.214	Bern	3400
AS41066 Joint Stock Company RTComm-Sibir	Novosibirsk	Russia	95.172.150.25	Novosibirskaya Oblast'	
AS12715 Orange Espagne S.A.U.	Martorell	Spain	95.17.216.80	Catalonia	08760
AS12389 PJSC Rostelecom	Syaz'stroy	Russia	95.167.191.234	Leningradskaya Oblast'	187420
AS12389 PJSC Rostelecom	Smolensk	Russia	95.158.217.58	Smolenskaya Oblast'	214004
AS34383 Teloise	Nogent-sur-Oise	France	95.136.214.51	Hauts-de-France	60180

AS20860 iomart Cloud Services Limited.	Glasgow	United Kingdom	95.129.107.1	Scotland	
AS3352 Telefonica De Espana	San Sebastián de La Gomera	Spain	95.123.165.210	Canary Islands	38800
AS3352 Telefonica De Espana	Majadahonda	Spain	95.122.202.132	Madrid	28220
AS3352 Telefonica De Espana	Gijón	Spain	95.120.249.245	Principality of Asturias	33200
AS16625 Akamai Technologies, Inc.	Cambridge (Mit)	United States	95.100.191.189	Massachusetts	
AS6830 Liberty Global Operations B.V.	Duisburg	Germany	94.79.158.94	North Rhine-Westphalia	47269
AS29119 ServiHosting Networks S.L.	Pliego	Spain	94.76.155.199	Murcia	30176
AS60781 LeaseWeb Netherlands B.V.	Amsterdam	Netherlands	94.75.236.183	North Holland	
AS12353 Vodafone Portugal - Comunicacoes Pessoais S.A.	Porto	Portugal	94.60.36.53	Porto	4000-000
AS35805 JSC Silknet	Tbilisi	Georgia	94.43.168.116	K'alak'i T'bilisi	
AS8612 Tiscali SpA	Rome	Italy	94.37.117.8	Latium	00148
AS35154 PJSC Rostelecom	Yekaterinburg	Russia	94.31.148.18	Sverdlovskaya Oblast'	620027
AS5607 Sky UK Limited	Milton Keynes	United Kingdom	94.3.20.13	England	MK7
AS56876 Ociris GmbH	Fürstentfeldbruck	Germany	94.250.210.224	Bavaria	
AS5483 Magyar Telekom plc.	Derecske	Hungary	94.248.249.215	Hajdú-Bihar	4130
AS6848 Telenet BVBA	Antwerp	Belgium	94.227.122.227	Flanders	2000
AS3209 Vodafone GmbH	Berlin	Germany	94.223.172.4	Land Berlin	10777
AS3209 Vodafone GmbH	Crimmitschau	Germany	94.222.58.230	Saxony	08451
AS3209 Vodafone GmbH	Hürth	Germany	94.221.59.124	North Rhine-Westphalia	50354
AS3209 Vodafone GmbH	Ratingen	Germany	94.221.0.6	North Rhine-Westphalia	40832
AS3209 Vodafone GmbH	Wiesbaden	Germany	94.219.186.129	Hesse	65185
AS3209 Vodafone GmbH	Stuttgart	Germany	94.218.70.64	Baden-Württemberg Region	70173
AS3209 Vodafone GmbH	Nuremberg	Germany	94.217.161.226	Bavaria	90478
AS9143 Ziggo	Garrelsewer	Netherlands	94.214.251.184	Groningen	9918
AS9143 Ziggo	Den Helder	Netherlands	94.211.206.109	North Holland	1785
AS20845 DIGI Tavkozlesi es Szolgáltato Kft.	Paszto	Hungary	94.21.152.167	Nograd megye	3060
AS15802 Emirates Integrated Telecommunications Company PJSC (EITC-DU)	Dubai	United Arab Emirates	94.204.150.111	Dubai	

AS15802 Emirates Integrated Telecommunications Company PJSC (EITC-DU)	Dubai	United Arab Emirates	94.200.177.13	Dubai	
AS49367 Seflow S.N.C. Di Marco Brame' & C.	Segonzano	Italy	94.198.98.17	Trentino-Alto Adige	38047
AS5607 Sky UK Limited	Glasgow	United Kingdom	94.195.123.227	Scotland	G42
AS5607 Sky UK Limited	Stockton-on-Tees	United Kingdom	94.194.59.236	England	TS19
AS5607 Sky UK Limited	Birmingham	United Kingdom	94.194.239.15	England	B15
AS5607 Sky UK Limited	Carrickfergus	United Kingdom	94.194.200.244	Northern Ireland	BT38
AS5607 Sky UK Limited	Chatham	United Kingdom	94.194.142.227	England	ME4
AS5607 Sky UK Limited	Dumfries	United Kingdom	94.192.228.74	Scotland	DG1
AS35807 SkyNet Ltd.	St Petersburg	Russia	94.19.198.15	St.-Petersburg	190817
AS52207 JSC ER-Telecom Holding	Tula	Russia	94.181.7.35	Tul'skaya Oblast'	300034
AS50887 Tv Post Srl	Siret	Romania	94.177.97.217	Suceava	
AS31034 Aruba S.p.A.	Arezzo	Italy	94.177.170.121	Tuscany	52100
AS5089 Virgin Media Limited	Huyton	United Kingdom	94.175.89.189	England	L36
AS5089 Virgin Media Limited	Newcastle upon Tyne	United Kingdom	94.175.158.204	England	NE2
AS34577 SKAT TV Ltd.	Burgas	Bulgaria	94.156.124.109	Burgas	8000
AS9158 Telenor A/S	Copenhagen	Denmark	94.145.162.141	Capital Region	
AS48666 MAROSNET Telecommunication Company LLC	Moscow	Russia	94.142.141.232	Moscow	102128
AS34602 Megasvyaz LLC	Moscow	Russia	94.141.183.221	Moscow	102128
AS5607 Sky UK Limited	Shepherds Bush	United Kingdom	94.14.155.47	England	W12
AS8881 1&1 Versatel Deutschland GmbH	Neumünster	Germany	94.134.241.242	Schleswig-Holstein	24537
AS5607 Sky UK Limited	Sheffield	United Kingdom	94.13.182.49	England	S11
AS47377 Orange Belgium SA	Evere	Belgium	94.110.180.166	Brussels Capital	
AS5607 Sky UK Limited	Falkirk	United Kingdom	94.10.124.65	Scotland	FK2
AS5607 Sky UK Limited	Wimbledon	United Kingdom	94.0.200.33	England	SW19
AS25229 Volia	Kiev	Ukraine	93.72.84.251	Kyiv City	03057
AS12874 Fastweb	Corato	Italy	93.61.54.176	Apulia	70033
AS12874 Fastweb	Zelo Buon Persico	Italy	93.55.201.147	Lombardy	26839

AS15557 SFR SA	Paris	France	93.5.38.210	Île-de-France	
AS15557 SFR SA	Reims	France	93.5.201.186	Grand-Est	51100
AS12874 Fastweb	Marano di Napoli	Italy	93.46.63.93	Campania	80016
AS12874 Fastweb	Turin	Italy	93.43.248.50	Piedmont	10138
AS12874 Fastweb	Tivoli	Italy	93.39.183.203	Latium	00019
AS15557 SFR SA	Marseille	France	93.31.216.212	Provence-Alpes-Côte d'Azur	13010
AS3320 Deutsche Telekom AG	Reichertshofen	Germany	93.238.4.165	Bavaria	85084
AS3320 Deutsche Telekom AG	Tübingen	Germany	93.237.74.220	Baden-Württemberg Region	72072
AS3320 Deutsche Telekom AG	Althutte	Germany	93.235.150.151	Baden-Württemberg Region	71566
AS3320 Deutsche Telekom AG	Hennef	Germany	93.230.137.230	North Rhine-Westphalia	53773
AS15557 SFR SA	Mayenne	France	93.22.211.85	Pays de la Loire	53100
AS3320 Deutsche Telekom AG	Karlsfeld	Germany	93.217.176.136	Bavaria	85757
AS3320 Deutsche Telekom AG	Oldenburg	Germany	93.216.24.116	Lower Saxony	26127
AS3320 Deutsche Telekom AG	Lohfelden	Germany	93.209.163.215	Hesse	34253
AS3320 Deutsche Telekom AG	Bremen	Germany	93.203.188.254	Bremen	28197
AS3320 Deutsche Telekom AG	Dassow	Germany	93.203.146.40	Mecklenburg-Vorpommern	23942
AS16010 Magticom Ltd.	Tbilisi	Georgia	93.177.147.24	K'alak'i T'bilisi	
AS44957 Vodafone Italia S.p.A.	Vicenza	Italy	93.151.60.14	Veneto	36100
AS30722 Vodafone Italia S.p.A.	Rome	Italy	93.149.53.199	Latium	00173
AS30722 Vodafone Italia S.p.A.	Milan	Italy	93.146.218.103	Lombardy	20128
AS6805 Telefonica Germany	Stuttgart	Germany	93.132.54.11	Baden-Württemberg Region	70180
AS8767 M-net Telekommunikations GmbH	Bad Worishofen	Germany	93.104.143.51	Bavaria	86825
AS15557 SFR SA	Sartrouville	France	92.94.97.236	Île-de-France	78500
AS15557 SFR SA	Niort	France	92.93.152.90	Nouvelle-Aquitaine	79000
AS3209 Vodafone GmbH	Dusseldorf	Germany	92.72.27.74	North Rhine-Westphalia	40221
AS29182 JSC ISPSysystem	Irkutsk	Russia	92.63.109.142	Irkutskaya Oblast'	
AS12479 Orange Espagne SA	Javea	Spain	92.58.101.55	Valencia	03730
AS12479 Orange Espagne SA	Alcobendas	Spain	92.56.19.55	Madrid	
AS12389 PJSC Rostelecom	Volgodonsk	Russia	92.50.222.236	Rostov	347395

AS21299 2DAY Telecom LLP	Astana	Kazakhstan	92.49.246.53	Astana Qalasy	
AS12389 PJSC Rostelecom	Ulyanovsk	Russia	92.252.209.2	Ulyanovsk Oblast	432044
AS8717 Mobiltel Ead	Sofia	Bulgaria	92.247.13.211	Sofia-Capital	1000
AS6805 Telefonica Germany	Werder	Germany	92.229.69.105	Brandenburg	14542
AS3209 Vodafone GmbH	Stuttgart	Germany	92.218.206.27	Baden-Württemberg Region	70178
AS3209 Vodafone GmbH	Markgroningen	Germany	92.216.140.82	Baden-Württemberg Region	71706
AS3209 Vodafone GmbH	Berlin	Germany	92.214.160.152	Land Berlin	10117
AS3209 Vodafone GmbH	Frankfurt am Main	Germany	92.213.41.177	Hesse	
AS3209 Vodafone GmbH	Frankfurt am Main	Germany	92.213.196.241	Hesse	
AS3209 Vodafone GmbH	Frankfurt am Main	Germany	92.213.115.101	Hesse	
AS3209 Vodafone GmbH	Dortmund	Germany	92.209.66.99	North Rhine-Westphalia	44319
AS3209 Vodafone GmbH	Emmerich	Germany	92.209.18.164	North Rhine-Westphalia	46446
AS3209 Vodafone GmbH	Steinhagen	Germany	92.209.108.26	North Rhine-Westphalia	33803
AS20676 QSC AG	Cologne	Germany	92.204.3.183	North Rhine-Westphalia	50999
AS20676 QSC AG	Bellheim	Germany	92.203.159.13	Rheinland-Pfalz	76756
AS20676 QSC AG	Berlin	Germany	92.200.125.40	Land Berlin	10785
AS20676 QSC AG	Hamburg	Germany	92.196.28.27	Hamburg	20095
AS20676 QSC AG	Frankfurt am Main	Germany	92.193.62.108	Hesse	60326
AS20676 QSC AG	Munster	Germany	92.193.107.160	Hesse	64839
AS20676 QSC AG	Trier	Germany	92.192.20.212	Rheinland-Pfalz	54295
AS12479 Orange Espagne SA	Madrid	Spain	92.190.230.150	Madrid	28003
AS12479 Orange Espagne SA	Madrid	Spain	92.190.218.115	Madrid	28001
AS12479 Orange Espagne SA	Astigarraga	Spain	92.185.161.73	Basque Country	20115
AS25454 Orange Moldova S.A.	Rennes	France	92.181.49.82	Brittany	
AS25454 Orange Moldova S.A.	Rennes	France	92.181.49.181	Brittany	
AS12479 Orange Espagne SA	Alcalá de Henares	Spain	92.177.144.86	Madrid	28804
AS43234 TalkTalk	Glasgow	United Kingdom	92.15.18.100	Scotland	G42
AS16625 Akamai Technologies, Inc.	London	United Kingdom	92.123.105.53	England	
AS43234 TalkTalk	Northampton	United Kingdom	92.12.96.79	England	NN1
AS3303 Swisscom (Switzerland) Ltd	Porsel	Switzerland	92.106.37.149	Fribourg	1699
AS3303 Swisscom (Switzerland) Ltd	Lucerne	Switzerland	92.105.91.250	Lucerne	6003

AS3303 Swisscom (Switzerland) Ltd	Basel	Switzerland	92.104.250.241	Basel-City	4001
AS8997 PJSC Rostelecom	St Petersburg	Russia	92.100.238.133	St.-Petersburg	190817
AS43234 TalkTalk	Norwich	United Kingdom	92.10.114.221	England	NR3
AS41334 Manche Telecom	Marchesieux	France	91.88.107.66	Normandy	50190
AS12301 Invitech Megoldasok Zrt.	Budapest	Hungary	91.82.94.26	Budapest	1012
AS15557 SFR SA	Elbeuf	France	91.69.66.231	Normandy	76500
AS15557 SFR SA	Colayrac-Saint-Cirq	France	91.69.36.141	Nouvelle-Aquitaine	47450
AS15557 SFR SA	Bretx	France	91.69.215.74	Occitanie	31530
AS15557 SFR SA	Vire	France	91.69.190.106	Normandy	14500
AS31334 Vodafone Kabel Deutschland GmbH	Worms	Germany	91.67.230.90	Rheinland-Pfalz	67547
AS31334 Vodafone Kabel Deutschland GmbH	Neunkirchen	Germany	91.67.124.106	Saarland	66538
AS31334 Vodafone Kabel Deutschland GmbH	Alzey	Germany	91.67.101.252	Rheinland-Pfalz	55232
AS31334 Vodafone Kabel Deutschland GmbH	Berlin	Germany	91.64.58.117	Land Berlin	10119
AS3320 Deutsche Telekom AG	Waldshut-Tiengen	Germany	91.60.249.113	Baden-Württemberg Region	79761
AS3320 Deutsche Telekom AG	Meppen	Germany	91.6.234.153	Lower Saxony	49716
AS3320 Deutsche Telekom AG	Mistelgau	Germany	91.52.54.43	Bavaria	95490
AS6712 TVP Format Llc	Donetsk	Ukraine	91.250.38.231	Donets'ka Oblast'	
AS9145 EWE-Tel GmbH	Bremervoerde	Germany	91.248.70.101	Lower Saxony	27432
AS9145 EWE-Tel GmbH	Aurich	Germany	91.248.205.63	Lower Saxony	26605
AS29588 Ivstar Ltd	Ivantevka	Russia	91.247.248.241	Moscow Oblast	141281
AS42673 Skyware Sp. z o.o.	Rzeszów	Poland	91.246.64.103	Subcarpathian Voivodeship	35-002
AS197922 Techcrea Solutions SARL	Valenciennes	France	91.236.254.136	Nord-Pas-de-Calais	
AS59727 Compact Policonstruct Srl	Bucharest	Romania	91.234.159.154	Bucuresti	
AS52213 LLC Donetsk Fiber-optical Network	Kharkiv	Ukraine	91.224.17.12	Kharkivs'ka Oblast'	
AS51646 Stepco ICT B.V.	Rotterdam	Netherlands	91.220.249.126	South Holland	
AS51711 Sc Optic Mau Holding Srl	Cluj-Napoca	Romania	91.219.215.133	Judetul Cluj	400001
AS13101 ennit server GmbH	Buchholz in der Nordheide	Germany	91.208.17.150	Lower Saxony	21244
AS9136 Wobcom GmbH	Wolfsburg	Germany	91.186.40.106	Lower Saxony	38444
AS3320 Deutsche Telekom AG	Springe	Germany	91.18.189.136	Lower Saxony	31832

AS3320 Deutsche Telekom AG	Bernburg	Germany	91.18.101.141	Saxony-Anhalt	06406
AS3 Massachusetts Institute of Technology	Ghent	Belgium	91.176.141.103	Flanders	
AS719 Elisa Oyj	Nummela	Finland	91.159.8.185	Uusimaa	03100
AS719 Elisa Oyj	Espoo	Finland	91.159.241.17	Uusimaa	02600
AS719 Elisa Oyj	Pori	Finland	91.153.180.122	Satakunta	28610
AS3226 OOO NI	Izhevsk	Russia	91.146.49.131	Udmurtskaya Respublika	426000
AS16276 OVH SAS	Varennes	France	91.134.81.112	Picardie	
AS1257 TELE2	Luftenberg an der Donau	Austria	91.128.205.62	Upper Austria	4225
AS8997 PJSC Rostelecom	St Petersburg	Russia	91.122.86.20	St.-Petersburg	190817
AS8997 PJSC Rostelecom	St Petersburg	Russia	91.122.60.69	St.-Petersburg	190817
AS5588 T-Mobile Czech Republic a.s.	Budapest	Hungary	91.120.56.101	Budapest	1138
AS3320 Deutsche Telekom AG	Bad Nauheim	Germany	91.12.72.177	Hesse	61231
AS3320 Deutsche Telekom AG	Garrel	Germany	91.12.238.135	Lower Saxony	49681
AS6830 Liberty Global Operations B.V.	Vienna	Austria	91.118.86.108	Vienna	
AS62041 Telegram Messenger LLP	Amsterdam	Netherlands	91.108.4.197	North Holland	
AS57858 Inter Connects Inc	Warsaw	Poland	91.108.182.52	Mazovia	04-186
AS12715 Orange Espagne S.A.U.	Linares	Spain	90.94.173.97	Andalusia	23700
AS3215 Orange	Aix-en-Provence	France	90.85.145.206	Provence-Alpes-Côte d'Azur	
AS12479 Orange Espagne SA	Seville	Spain	90.68.171.103	Andalusia	41003
AS3301 Telia Company AB	Lindome	Sweden	90.232.183.176	Västra Götaland	
AS5607 Sky UK Limited	Bristol	United Kingdom	90.222.82.149	England	BS1
AS5607 Sky UK Limited	Gloucester	United Kingdom	90.220.160.67	England	GL4
AS5607 Sky UK Limited	Brighton	United Kingdom	90.219.188.52	England	BN3
AS5607 Sky UK Limited	Leeds	United Kingdom	90.216.172.31	England	LS12
AS5607 Sky UK Limited	Brighton	United Kingdom	90.214.95.114	England	BN3
AS5607 Sky UK Limited	Gloucester	United Kingdom	90.213.160.157	England	GL4
AS5607 Sky UK Limited	Colchester	United Kingdom	90.211.138.157	England	CO2
AS5607 Sky UK Limited	Glasgow	United Kingdom	90.209.79.219	Scotland	G42

AS5607 Sky UK Limited	Rhondda	United Kingdom	90.209.178.169	Wales	CF42
AS5607 Sky UK Limited	Ilford	United Kingdom	90.208.23.156	England	IG1
AS5607 Sky UK Limited	Feltham	United Kingdom	90.207.209.59	England	TW13
AS5607 Sky UK Limited	Peterborough	United Kingdom	90.207.193.116	England	PE1
AS5607 Sky UK Limited	Liverpool	United Kingdom	90.206.45.80	England	L3
AS5607 Sky UK Limited	Manchester	United Kingdom	90.206.13.139	England	M40
AS5607 Sky UK Limited	Exeter	United Kingdom	90.206.128.26	England	EX2
AS5607 Sky UK Limited	Rayleigh	United Kingdom	90.206.103.63	England	SS6
AS5607 Sky UK Limited	Nelson	United Kingdom	90.205.146.24	Wales	CF46
AS5607 Sky UK Limited	Croydon	United Kingdom	90.204.9.192	England	CR0
AS5607 Sky UK Limited	Brighton	United Kingdom	90.204.50.167	England	BN3
AS5607 Sky UK Limited	Leeds	United Kingdom	90.204.159.73	England	LS12
AS5607 Sky UK Limited	Birmingham	United Kingdom	90.204.125.174	England	B15
AS5607 Sky UK Limited	Liverpool	United Kingdom	90.202.150.20	England	L3
AS5607 Sky UK Limited	Hammersmith	United Kingdom	90.198.211.123	England	W14
AS5607 Sky UK Limited	Glasgow	United Kingdom	90.195.181.119	Scotland	G42
AS5607 Sky UK Limited	Lewisham	United Kingdom	90.195.146.235	England	SE13
AS5607 Sky UK Limited	Catford	United Kingdom	90.194.189.4	England	SE6
AS5607 Sky UK Limited	Northampton	United Kingdom	90.194.144.12	England	NN1
AS3249 Telia Eesti AS	Tallinn	Estonia	90.191.32.215	Harjumaa	
AS3249 Telia Eesti AS	Rapla	Estonia	90.191.142.114	Raplamaa	
AS5610 O2 Czech Republic, a.s.	Hostivice	Czechia	90.179.150.236	Central Bohemia	253 01
AS5610 O2 Czech Republic, a.s.	Hradec Králové	Czechia	90.178.146.182	Kralovehradecky kraj	500 02
AS12479 Orange Espagne SA	Madrid	Spain	90.174.129.120	Madrid	28001
AS12479 Orange Espagne SA	Ourense	Spain	90.171.145.147	Galicia	32071

AS12479 Orange Espagne SA	Carlet	Spain	90.164.186.32	Valencia	46240
AS8866 Vivacom	Sofia	Bulgaria	90.154.141.150	Sofia-Capital	1000
AS12605 LIWEST Kabelmedien GmbH	Linz	Austria	90.146.23.97	Upper Austria	4020
AS3215 Orange	Noisy-le-Sec	France	90.121.68.195	Île-de-France	93130
AS3215 Orange	Chalonnnes-sur-Loire	France	90.115.99.70	Pays de la Loire	
AS12874 Fastweb	Parma	Italy	89.97.130.207	Emilia-Romagna	43126
AS5410 Bouygues Telecom SA	Crosne	France	89.91.17.50	Île-de-France	
AS6830 Liberty Global Operations B.V.	Warsaw	Poland	89.70.250.207	Mazovia	00-202
AS35820 Telesat SRL	Comarnic	Romania	89.45.4.171	Prahova	105700
AS50129 Concisa, Comunicacion, Marketing y Servicios S.L.	Orihuela	Spain	89.45.244.84	Valencia	03300
AS39543 Tennenet Telecom Srl	Bucharest	Romania	89.34.224.105	Bucuresti	012282
AS8881 1&1 Versatel Deutschland GmbH	Gladbeck	Germany	89.245.165.56	North Rhine-Westphalia	45964
AS51032 Nevod Ltd	Volzhskiy	Russia	89.23.187.211	Volgogradskaya Oblast'	404100
AS6730 Sunrise Communications AG	Zurich	Switzerland	89.217.160.177	Zurich	8048
AS31042 Serbia BroadBand-Srpske Kablovske mreze d.o.o.	Belgrade	Serbia	89.216.5.1	Belgrade	
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Athens	Greece	89.210.65.75	Attica	
AS8426 Claranet Ltd	London	United Kingdom	89.206.243.253	England	EC2V
AS24955 OJSC Ufanet	Ufa	Russia	89.189.133.191	Bashkortostan	450000
AS6830 Liberty Global Operations B.V.	Prague	Czechia	89.177.41.94	Hlavni mesto Praha	182 00
AS34748 OPTIMA TELEKOM d.d.	Split	Croatia	89.17.30.206	Splitsko-Dalmatinska Zupanija	
AS15747 EWE-Tel GmbH	Lotte	Germany	89.166.210.86	North Rhine-Westphalia	49504
AS15747 EWE-Tel GmbH	Ibbenbueren	Germany	89.166.171.188	North Rhine-Westphalia	49479
AS21502 SFR SA	Le Gosier	Guadeloupe	89.157.102.127		
AS6805 Telefonica Germany	Frankfurt am Main	Germany	89.14.117.222	Hesse	60439
AS6830 Liberty Global Operations B.V.	Suceava	Romania	89.136.237.193	Suceava	720021
AS12353 Vodafone Portugal - Comunicacoes Pessoais S.A.	Lisbon	Portugal	89.115.182.69	Lisbon	1200-181

AS25144 Telekomunikacije Republike Srpske akcionarsko drustvo Banja Luka	Tesanj	Bosnia and Herzegovina	89.111.211.132	Federation of B&H;	
AS29226 JSC Mastertel	Moscow	Russia	89.106.169.249	Moscow	102128
AS42248 Vida optics TVV Ltd.	Vidin	Bulgaria	89.106.120.149	Oblast Vidin	3700
AS41381 Lucense SCaRL	Capannori	Italy	89.105.64.193	Tuscany	55012
AS6830 Liberty Global Operations B.V.	Neratovice	Czechia	89.102.147.208	Central Bohemia	277 11
AS6830 Liberty Global Operations B.V.	Pilsen	Czechia	89.102.112.132	Plzensky kraj	312 00
AS8422 NetCologne GmbH	Alsdorf	Germany	89.0.9.96	North Rhine-Westphalia	52477
AS2119 Telenor Norge AS	Tvedestrand	Norway	88.91.67.164	Aust-Agder	4900
AS2119 Telenor Norge AS	Drammen	Norway	88.88.129.177	Buskerud	3001
AS31283 IP-Only Networks AS	Oslo	Norway	88.87.41.202	Oslo County	0001
AS3209 Vodafone GmbH	Hamburg	Germany	88.79.26.210	Hamburg	
AS3209 Vodafone GmbH	Gelsenkirchen	Germany	88.77.68.168	North Rhine-Westphalia	45888
AS3209 Vodafone GmbH	Dusseldorf	Germany	88.77.170.35	North Rhine-Westphalia	40489
AS3209 Vodafone GmbH	Cologne	Germany	88.76.44.210	North Rhine-Westphalia	50670
AS3209 Vodafone GmbH	Finsterwalde	Germany	88.75.42.111	Brandenburg	03238
AS3209 Vodafone GmbH	Berlin	Germany	88.74.73.93	Land Berlin	12529
AS3209 Vodafone GmbH	Frankfurt am Main	Germany	88.74.255.47	Hesse	60386
AS3209 Vodafone GmbH	Frankfurt am Main	Germany	88.72.152.192	Hesse	
AS3209 Vodafone GmbH	Bad Camberg	Germany	88.69.53.20	Hesse	65520
AS3209 Vodafone GmbH	Frankfurt am Main	Germany	88.69.1.183	Hesse	60487
AS3209 Vodafone GmbH	Mannheim	Germany	88.67.116.191	Baden-Württemberg Region	68163
AS3209 Vodafone GmbH	Neu-Ulm	Germany	88.66.232.2	Bavaria	89231
AS3209 Vodafone GmbH	Heidelberg	Germany	88.66.174.12	Baden-Württemberg Region	69115
AS3209 Vodafone GmbH	Munich	Germany	88.65.21.71	Bavaria	80538
AS3209 Vodafone GmbH	Augsburg	Germany	88.65.203.114	Bavaria	86179
AS3209 Vodafone GmbH	Stuttgart	Germany	88.65.152.246	Baden-Württemberg Region	70173
AS3269 Telecom Italia	Siena	Italy	88.33.155.64	Tuscany	53100
AS3352 Telefonica De Espana	Terrassa	Spain	88.25.192.119	Catalonia	08221
AS9121 Turk Telekom	Istanbul	Turkey	88.249.102.208	Istanbul	
AS3352 Telefonica De Espana	Valencia	Spain	88.23.97.110	Valencia	46001
AS20940 Akamai International B.V.	Cambridge (Mit)	United States	88.221.89.100	Massachusetts	

AS12956 TELEFONICA Telefonica Wholesale Network	Clichy-sous-Bois	France	88.221.106.184	Île-de-France	
AS3352 Telefonica De Espana	Zaragoza	Spain	88.22.104.250	Aragon	50003
AS39005 MEDI@LYS	Patay	France	88.219.152.162	Centre-Val de Loire	45310
AS8767 M-net Telekommunikations GmbH	Munich	Germany	88.217.133.33	Bavaria	80796
AS2107 ARNES	Ljubljana	Slovenia	88.200.0.12	Ljubljana	1500
AS3352 Telefonica De Espana	Valencia	Spain	88.2.152.14	Valencia	46019
AS199296 Virtual Space Maciej Wasiuta	Szczecin	Poland	88.199.146.187	West Pomerania	70-450
AS201149 ITS Network Solution sp z o o	Nadolice Wielkie	Poland	88.199.113.153	Lower Silesia	55-003
AS12322 Free SAS	Verdun-sur-Garonne	France	88.186.85.71	Occitanie	82600
AS12322 Free SAS	Rosny-sur-Seine	France	88.185.180.116	Île-de-France	78710
AS12322 Free SAS	Saint-Etienne-de-Valoux	France	88.175.83.234	Auvergne-Rhone-Alpes	42100
AS12322 Free SAS	Chambray-lès-Tours	France	88.172.220.156	Centre-Val de Loire	37170
AS3352 Telefonica De Espana	Tejina	Spain	88.17.230.241	Canary Islands	38260
AS3352 Telefonica De Espana	Santa Úrsula	Spain	88.17.227.215	Canary Islands	38390
AS12322 Free SAS	Lunéville	France	88.168.199.10	Grand-Est	54300
AS12322 Free SAS	Pontault-Combault	France	88.167.49.103	Île-de-France	77340
AS12322 Free SAS	Lille	France	88.165.157.216	Hauts-de-France	59000
AS12322 Free SAS	Clermont-Ferrand	France	88.164.94.125	Auvergne-Rhone-Alpes	63100
AS12322 Free SAS	Saint-Raphaël	France	88.163.205.133	Provence-Alpes-Côte d'Azur	83700
AS12322 Free SAS	Gif-sur-Yvette	France	88.162.151.125	Île-de-France	91190
AS12322 Free SAS	Paris	France	88.162.116.170	Île-de-France	75011
AS12322 Free SAS	Val-de-Reuil	France	88.160.217.235	Normandy	27100
AS3352 Telefonica De Espana	Suances	Spain	88.16.80.129	Cantabria	39340
AS39309 Edutel BV	Eindhoven	Netherlands	88.159.99.29	North Brabant	5632
AS6830 Liberty Global Operations B.V.	Düren	Germany	88.153.76.38	North Rhine-Westphalia	52355
AS6830 Liberty Global Operations B.V.	Düren	Germany	88.153.74.66	North Rhine-Westphalia	52349
AS59410 Barritec Ltd	Basingstoke	United Kingdom	88.151.40.23	England	RG21
AS41075 ATW Internet Kft.	Budapest	Hungary	88.151.100.193	Budapest	1012
AS50188 KOLNET Sp. z o.o.	Czechowice-Dziedzice	Poland	88.135.168.203	Silesia	43-502
AS8881 1&1 Versatel Deutschland GmbH	Ravensburg	Germany	88.130.202.221	Baden-Württemberg Region	88213

AS3352 Telefonica De Espana	Madrid	Spain	88.13.137.206	Madrid	28003
AS12322 Free SAS	Aix-les-Bains	France	88.125.98.144	Auvergne-Rhone-Alpes	73100
AS12322 Free SAS	Bavay	France	88.123.62.102	Hauts-de-France	59570
AS12322 Free SAS	Champier	France	88.123.214.183	Auvergne-Rhone-Alpes	38260
AS12322 Free SAS	Biganos	France	88.122.81.132	Nouvelle-Aquitaine	33380
AS8447 A1 Telekom Austria AG	Mondsee	Austria	88.117.141.242	Upper Austria	5310
AS3352 Telefonica De Espana	Zaragoza	Spain	88.0.188.17	Aragon	50003
AS44581 AllTele Allmanna Svenska Telefonaktiebolaget	Sundbyberg	Sweden	87.96.185.124	Stockholm	172 00
AS16086 DNA Oyj	Turku	Finland	87.92.239.15	Finland Proper	20700
AS4589 EASYNET Easynet Global Services	London	United Kingdom	87.82.220.237	England	EC2V
AS5607 Sky UK Limited	Morden	United Kingdom	87.81.163.178	England	SM4
AS3269 Telecom Italia	Savona	Italy	87.8.192.53	Liguria	17100
AS8422 NetCologne GmbH	Cologne	Germany	87.78.189.65	North Rhine-Westphalia	50825
AS3269 Telecom Italia	Catania	Italy	87.6.101.91	Sicily	95100
AS3292 Tele Danmark	Ronde	Denmark	87.56.236.227	Central Jutland	8410
AS3292 Tele Danmark	Vejle	Denmark	87.55.147.43	South Denmark	7100
AS3292 Tele Danmark	Copenhagen	Denmark	87.52.249.77	Capital Region	1513
AS38930 LeaseWeb Network B.V.	Nieuwegein	Netherlands	87.255.55.30	Provincie Utrecht	3433
AS29492 Eidsiva Bredband AS	Gjøvik	Norway	87.248.28.48	Oppland	2825
AS29492 Eidsiva Bredband AS	Lillehammer	Norway	87.248.18.80	Oppland	2611
AS12703 Pulsant (Scotland) Ltd	Glasgow	United Kingdom	87.246.106.8	Scotland	G2
AS35768 JSC MS-Link	Moscow	Russia	87.237.47.102	Moscow	102128
AS12389 PJSC Rostelecom	Komsomolsk-on-Amur	Russia	87.225.6.120	Khabarovsk	681006
AS13127 Tele 2 Nederland B.V.	Amsterdam	Netherlands	87.210.10.202	North Holland	1017
AS13127 Tele 2 Nederland B.V.	Oss	Netherlands	87.209.184.127	North Brabant	5348
AS6830 Liberty Global Operations B.V.	Krakow	Poland	87.207.50.108	Lesser Poland Voivodeship	31-560
AS6830 Liberty Global Operations B.V.	Zabrze	Poland	87.206.240.5	Silesia	41-813
AS3320 Deutsche Telekom AG	Frankfurt am Main	Germany	87.191.131.250	Hesse	
AS3269 Telecom Italia	Lucca	Italy	87.19.200.47	Tuscany	55100

AS3320 Deutsche Telekom AG	Mainz	Germany	87.187.27.200	Rheinland-Pfalz	55128
AS3320 Deutsche Telekom AG	Bruckmuhl	Germany	87.185.240.34	Bavaria	83052
AS3320 Deutsche Telekom AG	Apolda	Germany	87.181.182.98	Thuringia	99510
AS3269 Telecom Italia	Taranto	Italy	87.18.252.172	Apulia	74100
AS3320 Deutsche Telekom AG	Erfurt	Germany	87.179.90.235	Thuringia	99084
AS3320 Deutsche Telekom AG	Radebeul	Germany	87.178.54.44	Saxony	01445
AS3320 Deutsche Telekom AG	Telgte	Germany	87.175.82.129	North Rhine-Westphalia	48291
AS3320 Deutsche Telekom AG	Beratzhausen	Germany	87.175.187.114	Bavaria	93176
AS3320 Deutsche Telekom AG	Berlin	Germany	87.173.147.93	Land Berlin	13591
AS3320 Deutsche Telekom AG	Bernburg	Germany	87.172.28.207	Saxony-Anhalt	06406
AS3320 Deutsche Telekom AG	Nuremberg	Germany	87.171.179.161	Bavaria	90459
AS3320 Deutsche Telekom AG	Fürth	Germany	87.163.227.149	Bavaria	90765
AS3320 Deutsche Telekom AG	Miltenberg	Germany	87.151.31.97	Bavaria	63897
AS3320 Deutsche Telekom AG	Oldenburg	Germany	87.140.146.18	Lower Saxony	
AS3320 Deutsche Telekom AG	Frankfurt am Main	Germany	87.140.111.250	Hesse	
AS3269 Telecom Italia	Turin	Italy	87.14.228.179	Piedmont	10155
AS3269 Telecom Italia	Paderno Dugnano	Italy	87.13.85.59	Lombardy	20037
AS8468 Entanet	Chelsea	United Kingdom	87.127.117.192	England	SW10
AS43561 NET1 Ltd.	Sofia	Bulgaria	87.120.97.134	Sofia-Capital	1000
AS34577 SKAT TV Ltd.	Pomorie	Bulgaria	87.120.232.195	Burgas	8200
AS34577 SKAT TV Ltd.	Burgas	Bulgaria	87.120.180.201	Burgas	8000
AS2116 Broadnet AS	Baerums verk	Norway	87.118.32.164	Akershus	1353
AS12578 SIA Lattelecom	Riga (Centra rajons)	Latvia	87.110.26.207	Riga	
AS12578 SIA Lattelecom	Riga	Latvia	87.110.122.16	Riga	
AS3269 Telecom Italia	Rome	Italy	87.1.216.18	Latium	00153
AS3269 Telecom Italia	Florence	Italy	87.1.130.109	Tuscany	50137
AS3269 Telecom Italia	Verona	Italy	87.0.18.123	Veneto	37122
AS5089 Virgin Media Limited	Nottingham	United Kingdom	86.9.0.133	England	NG10
AS1136 KPN B.V.	Amsterdam	Netherlands	86.88.122.179	North Holland	1025
AS15557 SFR SA	Aubervilliers	France	86.72.91.55	Île-de-France	93300

AS15557 SFR SA	Toulouse	France	86.66.150.68	Occitanie	31400
AS39699 Lounea Palvelut Oy	Salo	Finland	86.60.239.55	Finland Proper	24260
AS5089 Virgin Media Limited	Telford	United Kingdom	86.5.122.54	England	TF1
AS5466 Eircom	Cork	Ireland	86.45.249.79	Munster	T23
AS1257 TELE2	Vienna	Austria	86.32.113.161	Vienna	1030
AS5089 Virgin Media Limited	Bournemouth	United Kingdom	86.20.71.172	England	BH2
AS2856 British Telecommunications PLC	Mirfield	United Kingdom	86.140.47.230	England	WF14
AS8708 RCS & RDS	Bucharest	Romania	86.126.5.26	Bucuresti	050019
AS8708 RCS & RDS	Bucharest	Romania	86.124.77.12	Bucuresti	050019
AS8708 RCS & RDS	Alexandria	Romania	86.122.216.9	Teleorman	140001
AS8708 RCS & RDS	Bucharest	Romania	86.121.62.20	Bucuresti	050019
AS8708 RCS & RDS	Bucharest	Romania	86.121.141.198	Bucuresti	050019
AS12880 Information Technology Company (ITC)	Tehran	Iran	86.107.90.82	Ostan-e Tehran	
AS51490 Proper Support LLP	Elstree	United Kingdom	86.106.13.77	England	
AS6830 Liberty Global Operations B.V.	Roman	Romania	86.105.74.249	Judetul Neamt	611160
AS5089 Virgin Media Limited	Acton	United Kingdom	86.10.41.143	England	W3
AS3303 Swisscom (Switzerland) Ltd	Geneva	Switzerland	85.7.33.83	Geneva	1203
AS3303 Swisscom (Switzerland) Ltd	Lutry	Switzerland	85.7.227.46	Vaud	1095
AS12301 Invitech Megoldások Zrt.	Torokszenmiklos	Hungary	85.67.160.26	Jász-Nagykun-Szolnok	5200
AS12479 Orange Espagne SA	Oviedo	Spain	85.61.68.67	Principality of Asturias	33001
AS3303 Swisscom (Switzerland) Ltd	Basel	Switzerland	85.6.170.245	Basel-City	4051
AS12479 Orange Espagne SA	Madrid	Spain	85.59.51.202	Madrid	28001
AS8972 Host Europe GmbH	Hoest	Germany	85.25.194.137	North Rhine-Westphalia	47652
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Odivelas	Portugal	85.247.111.32	Lisbon	2675-000
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Almada	Portugal	85.245.218.138	Setúbal	2800-000
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Canecas	Portugal	85.244.231.21	Lisbon	1685-039

AS3243 Servicos De Comunicacoes E Multimedia S.A.	Corroios	Portugal	85.242.222.178	Setúbal	2855-001
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Castro Marim	Portugal	85.242.18.185	Faro	8950-121
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Vila Verde de Ficalho	Portugal	85.240.3.46	Beja	7830-480
AS16086 DNA Oyj	Haukipudas	Finland	85.23.127.141	Northern Ostrobothnia	90830
AS6677 Siminn	Garðabaer	Iceland	85.220.125.199	Capital Region	210
AS6739 Vodafone Ono, S.A.	Atarrabia	Spain	85.219.79.86	Navarre	31610
AS43811 Telia Lietuva, AB	Vilnius	Republic of Lithuania	85.206.143.125	Vilnius County	
AS29066 velia.net Internetdienste GmbH	Greifswald	Germany	85.195.80.72	Mecklenburg-Vorpommern	
AS51862 Profitbricks GmbH	Berlin (Prenzlauer Berg)	Germany	85.184.249.7	Berlin	
AS6805 Telefonica Germany	Hamburg	Germany	85.179.59.143	Hamburg	20537
AS6805 Telefonica Germany	Hamburg	Germany	85.176.0.80	Hamburg	20095
AS21502 SFR SA	Wattrelos	France	85.169.77.18	Hauts-de-France	59150
AS2119 Telenor Norge AS	Sarpsborg	Norway	85.167.8.190	Østfold	1727
AS28725 Ceska Telekomunikacni Infrastruktura a.s	Prague	Czechia	85.163.22.175	Hlavni mesto Praha	130 00
AS34931 Awareness Software Limited	Crewe	United Kingdom	85.159.250.230	England	CW1
AS6739 Vodafone Ono, S.A.	Telde	Spain	85.155.216.77	Canary Islands	35220
AS5390 Euronet Communications B.V.	Hilversum	Netherlands	85.150.93.126	North Holland	
AS5390 Euronet Communications B.V.	Hilversum	Netherlands	85.150.118.26	North Holland	
AS6739 Vodafone Ono, S.A.	Cordova	Spain	85.136.156.75	Andalusia	14005
AS3292 Tele Danmark	Herlev	Denmark	85.129.31.66	Capital Region	2730
AS16010 Magticom Ltd.	Tbilisi	Georgia	85.114.255.92	K'alak'i T'bilisi	
AS39010 TerraNet sal	Beirut	Lebanon	85.112.66.93	Beyrouth	
AS8632 Luxembourg Online S.A.	Luxembourg	Luxembourg	85.10.120.53	District de Luxembourg	
AS3303 Swisscom (Switzerland) Ltd	Zurich	Switzerland	85.1.218.94	Zurich	8048
AS3303 Swisscom (Switzerland) Ltd	Kradolf	Switzerland	85.1.117.41	Thurgau	9214

AS3303 Swisscom (Switzerland) Ltd	Wittenbach	Switzerland	85.1.117.231	Saint Gallen	9300
AS3303 Swisscom (Switzerland) Ltd	Éclépens	Switzerland	85.0.99.182	Vaud	1312
AS25310 Cable & Wireless Access Limited	Bristol	United Kingdom	84.9.183.63	England	BS10
AS1136 KPN B.V.	Alphen aan den Rijn	Netherlands	84.83.189.100	South Holland	
AS6830 Liberty Global Operations B.V.	Peseux	Switzerland	84.75.26.78	Neuchâtel	2034
AS8228 SFR SA	Lapeyrouse-Fossat	France	84.7.165.186	Occitanie	31180
AS3209 Vodafone GmbH	Dortmund	Germany	84.63.22.72	North Rhine-Westphalia	44309
AS3209 Vodafone GmbH	Cologne	Germany	84.63.152.136	North Rhine-Westphalia	50674
AS3209 Vodafone GmbH	Erkrath	Germany	84.62.88.248	North Rhine-Westphalia	40699
AS3209 Vodafone GmbH	Krefeld	Germany	84.61.81.239	North Rhine-Westphalia	47809
AS3209 Vodafone GmbH	Frankfurt am Main	Germany	84.58.188.237	Hesse	60322
AS3209 Vodafone GmbH	Stuttgart	Germany	84.56.163.130	Baden-Württemberg Region	70186
AS43561 NET1 Ltd.	Sofia	Bulgaria	84.40.78.41	Sofia-Capital	1000
AS9009 M247 Ltd	Stretford	United Kingdom	84.39.117.201	England	
AS1759 Telia Finland Oyj	Helsinki	Finland	84.250.254.103	Uusimaa	00520
AS9143 Ziggo	Heerlen	Netherlands	84.25.251.173	Limburg	6412
AS9143 Ziggo	Eygelshoven	Netherlands	84.25.111.50	Limburg	6471
AS20495 We Dare B.V.	IJsselstein	Netherlands	84.244.135.57	Provincie Utrecht	3401
AS9198 JSC Kazakhtelecom	Atyrau	Kazakhstan	84.240.195.224	Atyrau Oblasy	
AS6730 Sunrise Communications AG	Zurich	Switzerland	84.226.132.181	Zurich	8037
AS6730 Sunrise Communications AG	Lugano	Switzerland	84.226.131.214	Ticino	6900
AS41164 Get AS	Kristiansand	Norway	84.213.153.225	Vest-Agder Fylke	4637
AS2116 Broadnet AS	Oslo	Norway	84.20.122.134	Oslo County	0001
AS35094 Broadnet AS	Trondheim	Norway	84.20.102.29	Sor-Trondelag Fylke	7018
AS6848 Telenet BVBA	Brussels	Belgium	84.199.205.85	Brussels Capital	1050
AS6848 Telenet BVBA	Antwerp	Belgium	84.198.158.138	Flanders	2020
AS6848 Telenet BVBA	Antwerp	Belgium	84.197.159.195	Flanders	2060
AS6848 Telenet BVBA	Berchem	Belgium	84.196.68.113	Flanders	2600
AS6848 Telenet BVBA	Hasselt	Belgium	84.195.91.94	Flanders	3500
AS6848 Telenet BVBA	Lommel	Belgium	84.194.227.157	Flanders	3920
AS6848 Telenet BVBA	Borgloon	Belgium	84.193.134.237	Flanders	3840
AS6848 Telenet BVBA	Hasselt	Belgium	84.192.209.103	Flanders	3500
AS6848 Telenet BVBA	Hasselt	Belgium	84.192.194.8	Flanders	3500
AS6848 Telenet BVBA	Hasselt	Belgium	84.192.107.206	Flanders	3500
AS31103 Keyweb AG	Erfurt	Germany	84.19.160.34	Thuringia	

AS3320 Deutsche Telekom AG	Klingenthal	Germany	84.155.224.170	Saxony	08248
AS3320 Deutsche Telekom AG	Wenden	Germany	84.154.77.160	North Rhine-Westphalia	57482
AS3320 Deutsche Telekom AG	Hildburghausen	Germany	84.142.166.108	Thuringia	98646
AS3320 Deutsche Telekom AG	Bonn	Germany	84.136.141.53	North Rhine-Westphalia	53125
AS3320 Deutsche Telekom AG	Ingolstadt	Germany	84.131.146.246	Bavaria	85055
AS6739 Vodafone Ono, S.A.	Palma	Spain	84.126.152.168	Balearic Islands	07013
AS6739 Vodafone Ono, S.A.	Aranda de Duero	Spain	84.125.104.114	Castille and León	09400
AS12357 Vodafone Spain	Valencia	Spain	84.123.20.229	Valencia	46001
AS12357 Vodafone Spain	Murcia	Spain	84.121.3.179	Murcia	30004
AS6830 Liberty Global Operations B.V.	Wiesbaden	Germany	84.119.241.76	Hesse	65205
AS6830 Liberty Global Operations B.V.	Vienna	Austria	84.114.144.148	Vienna	1200
AS9143 Ziggo	Schoorl	Netherlands	84.106.146.5	North Holland	1871
AS15557 SFR SA	Le Petit-Quevilly	France	84.103.212.45	Normandy	76140
AS15557 SFR SA	Domene	France	84.100.15.124	Auvergne-Rhone-Alpes	38420
AS3292 Tele Danmark	Copenhagen	Denmark	83.95.87.64	Capital Region	1513
AS9143 Ziggo	Katwijk	Netherlands	83.86.183.7	South Holland	2223
AS3303 Swisscom (Switzerland) Ltd	Zurich	Switzerland	83.78.33.133	Zurich	8700
AS3303 Swisscom (Switzerland) Ltd	Lugano	Switzerland	83.77.98.6	Ticino	6900
AS3303 Swisscom (Switzerland) Ltd	Zurich	Switzerland	83.77.70.87	Zurich	8037
AS3352 Telefonica De Espana	Vigo	Spain	83.55.248.208	Galicia	36201
AS3352 Telefonica De Espana	Molins de Rei	Spain	83.50.62.80	Catalonia	08750
AS3352 Telefonica De Espana	El Burgo de Osma	Spain	83.50.174.134	Castille and León	42300
AS3352 Telefonica De Espana	Cadiz	Spain	83.50.151.100	Andalusia	11009
AS3352 Telefonica De Espana	Madrid	Spain	83.48.111.214	Madrid	28034
AS3352 Telefonica De Espana	Getafe	Spain	83.47.34.159	Madrid	28900
AS3352 Telefonica De Espana	Valencia	Spain	83.46.69.15	Valencia	46001
AS3352 Telefonica De Espana	Cadiz	Spain	83.45.80.250	Andalusia	11005

AS3352 Telefonica De Espana	Málaga	Spain	83.45.163.209	Andalusia	29190
AS3352 Telefonica De Espana	Madrid	Spain	83.44.29.195	Madrid	28023
AS3352 Telefonica De Espana	Vigo	Spain	83.44.105.4	Galicia	36213
AS3352 Telefonica De Espana	Madrid	Spain	83.39.236.101	Madrid	
AS3352 Telefonica De Espana	Madrid	Spain	83.39.208.247	Madrid	28043
AS3352 Telefonica De Espana	Madrid	Spain	83.34.38.86	Madrid	28002
AS3352 Telefonica De Espana	Baeza	Spain	83.33.59.167	Andalusia	23440
AS3352 Telefonica De Espana	A Coruña	Spain	83.32.243.39	Galicia	15177
AS31364 Closed Joint Stock Company TransTeleCom	Barnaul	Russia	83.246.186.189	Altai Krai	656000
AS29518 Bredband2 AB	Hoellviken	Sweden	83.233.124.131	Skåne	236 20
AS3215 Orange	Villeneuve-Loubet	France	83.201.148.128	Provence-Alpes-Côte d'Azur	06270
AS13189 Liden Data Internetwork AB	Mora	Sweden	83.172.127.186	Dalarna	792 01
AS6866 Cyprus Telecommunications Authority	Nicosia	Cyprus	83.168.46.193	Nicosia	
AS3265 Xs4all Internet BV	Ermelo	Netherlands	83.163.89.63	Provincie Gelderland	3851
AS3265 Xs4all Internet BV	Amsterdam (Willemspark)	Netherlands	83.161.66.68	North Holland	
AS3265 Xs4all Internet BV	Rotterdam	Netherlands	83.161.137.103	South Holland	3052
AS12322 Free SAS	Agen	France	83.153.226.203	Nouvelle-Aquitaine	47000
AS5617 Orange Polska Spolka Akcyjna	Krakow	Poland	83.15.129.21	Lesser Poland Voivodeship	31-560
AS60781 LeaseWeb Netherlands B.V.	Amsterdam	Netherlands	83.149.98.207	North Holland	
AS39194 Vakka-Suomen Puhelin Oy	Uusikaupunki	Finland	83.146.223.153	Finland Proper	23501
AS34254 HOR.NET Polska Sp. z o.o.	Krakow	Poland	83.142.184.17	Lesser Poland Voivodeship	31-560
AS5432 Proximus NV	Brussels	Belgium	83.134.141.4	Brussels Capital	1080
AS15435 CAIW Diensten B.V.	Maassluis	Netherlands	83.128.26.114	South Holland	3144
AS6830 Liberty Global Operations B.V.	Bucharest	Romania	83.103.239.150	Bucuresti	050019
AS3265 Xs4all Internet BV	Bussum	Netherlands	82.94.234.104	North Holland	1406
AS3269 Telecom Italia	Molfetta	Italy	82.89.9.83	Apulia	70056
AS3209 Vodafone GmbH	Freiburg	Germany	82.83.185.18	Baden-Württemberg Region	79106

AS8708 RCS & RDS	Târgu Jiu	Romania	82.79.207.30	Gorj	210146
AS8708 RCS & RDS	Bucharest	Romania	82.76.159.60	Bucuresti	013162
AS13037 Zen Internet Ltd	Rochdale	United Kingdom	82.69.156.142	England	
AS3269 Telecom Italia	Lonato	Italy	82.60.87.50	Lombardy	25017
AS3269 Telecom Italia	Villa San Giovanni	Italy	82.55.117.232	Calabria	89018
AS3269 Telecom Italia	Bari	Italy	82.49.26.173	Apulia	70124
AS5089 Virgin Media Limited	Dudley	United Kingdom	82.40.182.168	England	DY1
AS5089 Virgin Media Limited	Croydon	United Kingdom	82.37.82.94	England	CR0
AS12322 Free SAS	Paris	France	82.253.115.143	Île-de-France	75019
AS12322 Free SAS	Courbevoie	France	82.251.129.193	Île-de-France	92400
AS12322 Free SAS	Paris (8th arrondissement of Paris)	France	82.250.71.239	Île-de-France	
AS5089 Virgin Media Limited	Nottingham	United Kingdom	82.25.130.135	England	NG8
AS12322 Free SAS	Grenoble	France	82.246.191.213	Auvergne-Rhone-Alpes	38100
AS12322 Free SAS	Yerres	France	82.245.135.87	Île-de-France	91330
AS12322 Free SAS	Oullins	France	82.244.251.124	Auvergne-Rhone-Alpes	69600
AS12322 Free SAS	Le Cannet	France	82.244.129.180	Provence-Alpes-Côte d'Azur	06110
AS12322 Free SAS	La Bassee	France	82.239.85.53	Hauts-de-France	59480
AS12322 Free SAS	Alfortville	France	82.239.209.2	Île-de-France	94140
AS12322 Free SAS	Villeneuve-le-Roi	France	82.234.207.97	Île-de-France	94290
AS12322 Free SAS	Bron	France	82.232.10.149	Auvergne-Rhone-Alpes	69500
AS12322 Free SAS	Bondy	France	82.230.198.162	Île-de-France	93140
AS12322 Free SAS	Fosses	France	82.230.107.91	Île-de-France	95470
AS5089 Virgin Media Limited	Ashford	United Kingdom	82.23.244.178	England	TN23
AS12322 Free SAS	Orléans	France	82.229.119.201	Centre-Val de Loire	45100
AS12322 Free SAS	Oullins	France	82.228.106.5	Auvergne-Rhone-Alpes	69600
AS12322 Free SAS	Ivry-sur-Seine	France	82.226.12.128	Île-de-France	94200
AS9143 Ziggo	Utrecht	Netherlands	82.217.77.73	Provincie Utrecht	3514
AS5089 Virgin Media Limited	Rossendale	United Kingdom	82.21.202.212	England	BB4
AS6849 PJSC Ukrtelecom	Lviv	Ukraine	82.207.84.29	L'viv's'ka Oblast'	79066
AS5089 Virgin Media Limited	Willesden	United Kingdom	82.20.41.96	England	NW10
AS5089 Virgin Media Limited	Manchester	United Kingdom	82.20.115.53	England	M24
AS29650 Sungard Availability Services (Ireland) Ltd.	Dublin	Ireland	82.195.144.13	Leinster	D02

AS5089 Virgin Media Limited	Southampton	United Kingdom	82.16.98.75	England	SO14
AS6739 Vodafone Ono, S.A.	Alcobendas	Spain	82.158.245.89	Madrid	28100
AS5089 Virgin Media Limited	Birmingham	United Kingdom	82.15.76.108	England	B26
AS5089 Virgin Media Limited	Camberley	United Kingdom	82.15.191.22	England	GU15
AS5089 Virgin Media Limited	Harlow	United Kingdom	82.15.19.175	England	CM17
AS25376 Netnorth Limited	Manchester	United Kingdom	82.148.226.225	England	M40
AS5089 Virgin Media Limited	Glasgow	United Kingdom	82.14.55.165	Scotland	G67
AS5089 Virgin Media Limited	Eltham	United Kingdom	82.14.156.47	England	SE9
AS28685 Routit BV	Lelystad	Netherlands	82.134.236.83	Provincie Flevoland	8231
AS5089 Virgin Media Limited	Nottingham	United Kingdom	82.10.212.159	England	NG8
AS5089 Virgin Media Limited	Kingston	United Kingdom	81.98.21.77	England	KT1
AS42831 UK Dedicated Servers Limited	Rugby	United Kingdom	81.92.219.43	England	
AS21502 SFR SA	Tourcoing	France	81.67.141.207	Hauts-de-France	59200
AS12322 Free SAS	Saint-Ouen	France	81.57.206.197	Île-de-France	93400
AS3352 Telefonica De Espana	Madrid	Spain	81.45.176.204	Madrid	28001
AS3352 Telefonica De Espana	Cordova	Spain	81.43.52.89	Andalusia	14014
AS3352 Telefonica De Espana	Terrassa	Spain	81.39.178.175	Catalonia	08221
AS3352 Telefonica De Espana	Sant Cugat del Vallès	Spain	81.35.225.62	Catalonia	08172
AS3352 Telefonica De Espana	Granada	Spain	81.33.198.59	Andalusia	18001
AS3352 Telefonica De Espana	Iznalloz	Spain	81.33.195.100	Andalusia	18550
AS3352 Telefonica De Espana	Bilbao	Spain	81.33.123.204	Basque Country	48001
AS3 Massachusetts Institute of Technology	Braine-l'Alleud	Belgium	81.241.73.201	Wallonia	1440
AS3 Massachusetts Institute of Technology	Antwerp (Berchem)	Belgium	81.240.217.146	Flanders	
AS3301 Telia Company AB	Hjälteby	Sweden	81.227.157.105	Västra Götaland	471 73
AS3301 Telia Company AB	Rönninge	Sweden	81.224.211.183	Stockholm	144 02
AS28964 Orion Telekom Tim d.o.o.Beograd	Belgrade	Serbia	81.18.58.138	Belgrade	

AS9105 Tiscali UK Limited	Peterborough	United Kingdom	81.178.178.232	England	PE1
AS8342 JSC RTComm.RU	Moscow	Russia	81.177.139.250	Moscow	102128
AS6848 Telenet BVBA	Geel	Belgium	81.165.6.117	Flanders	2440
AS6848 Telenet BVBA	Koksijde	Belgium	81.165.224.251	Flanders	8670
AS2856 British Telecommunications PLC	Birmingham	United Kingdom	81.136.166.192	England	
AS5089 Virgin Media Limited	Newtownabbey	United Kingdom	81.107.127.83	Northern Ireland	BT36
AS5089 Virgin Media Limited	Stafford	United Kingdom	81.107.121.140	England	ST17
AS6830 Liberty Global Operations B.V.	Tarnok	Hungary	80.99.170.80	Pest megye	2461
AS8767 M-net Telekommunikations GmbH	Munich	Germany	80.81.24.202	Bavaria	81737
AS5089 Virgin Media Limited	Nottingham	United Kingdom	80.7.130.85	England	NG16
AS5617 Orange Polska Spolka Akcyjna	Leszno	Poland	80.55.93.37	Greater Poland	64-100
AS5617 Orange Polska Spolka Akcyjna	Szczucin	Poland	80.54.75.212	Lesser Poland Voivodeship	33-230
AS9105 Tiscali UK Limited	Mansfield	United Kingdom	80.41.83.242	England	NG18
AS3352 Telefonica De Espana	Seville	Spain	80.36.81.171	Andalusia	41004
AS3352 Telefonica De Espana	Pamplona	Spain	80.31.188.84	Navarre	31004
AS21502 SFR SA	Ronchin	France	80.236.86.73	Hauts-de-France	59790
AS12578 SIA Lattelecom	Riga	Latvia	80.232.171.228	Riga	
AS39651 Com Hem AB	Gothenburg	Sweden	80.216.127.176	Västra Götaland	400 12
AS2119 Telenor Norge AS	Oslo	Norway	80.212.150.210	Oslo County	0001
AS3269 Telecom Italia	Surbo	Italy	80.21.230.173	Apulia	73010
AS3 Massachusetts Institute of Technology	Brussels	Belgium	80.200.130.239	Brussels Capital	1012
AS5089 Virgin Media Limited	Loughborough	United Kingdom	80.192.157.73	England	LE11
AS6871 British Telecommunications PLC	Cullompton	United Kingdom	80.189.2.170	England	EX15
AS3269 Telecom Italia	Mestre	Italy	80.182.233.8	Veneto	30173
AS3269 Telecom Italia	Rome	Italy	80.182.108.143	Latium	00137
AS3269 Telecom Italia	Mantova	Italy	80.180.28.182	Lombardy	46100
AS3292 Tele Danmark	Hojmark	Denmark	80.165.190.49	Central Jutland	
AS3320 Deutsche Telekom AG	Netphen	Germany	80.142.95.161	North Rhine-Westphalia	57250
AS3320 Deutsche Telekom AG	Minden	Germany	80.135.184.232	North Rhine-Westphalia	32425

AS3320 Deutsche Telekom AG	Bad Kleinen	Germany	80.130.83.183	Mecklenburg-Vorpommern	23996
AS3269 Telecom Italia	Verona	Italy	80.116.141.217	Veneto	37131
AS9143 Ziggo	Groningen	Netherlands	80.115.16.54	Groningen	9721
AS9143 Ziggo	Oisterwijk	Netherlands	80.114.240.192	North Brabant	5061
AS6830 Liberty Global Operations B.V.	Vienna	Austria	80.108.72.87	Vienna	1030
AS12479 Orange Espagne SA	Seville	Spain	80.102.243.14	Andalusia	41003
AS12479 Orange Espagne SA	León	Spain	80.102.197.171	Castille and León	24002
AS3265 Xs4all Internet BV	Enschede	Netherlands	80.101.137.191	Provincie Overijssel	7511
AS3356 Level 3 Communications, Inc.	Blountstown	United States	8.26.250.252	Florida	32424
AS3356 Level 3 Communications, Inc.	Jacksonville	United States	8.19.235.140	Florida	32224
AS12824 home.pl S.A.	Szczecin	Poland	79.96.58.88	West Pomeranian Voivodeship	
AS15557 SFR SA	Guitaens-L'Albarede	France	79.81.117.217	Occitanie	81220
AS15557 SFR SA	Le Muy	France	79.80.201.142	Provence-Alpes-Côte d'Azur	83490
AS3269 Telecom Italia	Albissola Marina	Italy	79.8.113.5	Liguria	17012
AS9105 Tiscali UK Limited	Reading	United Kingdom	79.79.35.153	England	
AS3269 Telecom Italia	Livorno	Italy	79.53.127.37	Tuscany	57124
AS3269 Telecom Italia	Ravenna	Italy	79.52.75.45	Emilia-Romagna	48100
AS3269 Telecom Italia	Somma Vesuviana	Italy	79.49.7.30	Campania	80049
AS3269 Telecom Italia	Perugia	Italy	79.49.188.186	Umbria	06123
AS3269 Telecom Italia	Montichiari	Italy	79.45.138.40	Lombardy	25018
AS3269 Telecom Italia	Reggio nell'Emilia	Italy	79.32.17.115	Emilia-Romagna	42100
AS3269 Telecom Italia	Genoa	Italy	79.31.126.64	Liguria	16151
AS3269 Telecom Italia	Genoa	Italy	79.30.121.236	Liguria	16151
AS3269 Telecom Italia	Cornigliano Ligure	Italy	79.3.203.139	Liguria	16151
AS3269 Telecom Italia	Aci Castello	Italy	79.27.11.122	Sicily	95021
AS3320 Deutsche Telekom AG	Berlstedt	Germany	79.252.76.115	Thuringia	99439
AS3320 Deutsche Telekom AG	Mönchengladbach	Germany	79.251.82.195	North Rhine-Westphalia	41061
AS3320 Deutsche Telekom AG	Berlin	Germany	79.235.245.66	Land Berlin	12529
AS3320 Deutsche Telekom AG	Braunschweig	Germany	79.231.31.32	Lower Saxony	38118
AS3269 Telecom Italia	Portici	Italy	79.23.24.238	Campania	80055
AS3320 Deutsche Telekom AG	Osterburg	Germany	79.218.63.69	Saxony-Anhalt	39606

AS3269 Telecom Italia	Castegnato	Italy	79.21.95.250	Lombardy	25045
AS3320 Deutsche Telekom AG	Verl	Germany	79.208.120.20	North Rhine-Westphalia	33415
AS3320 Deutsche Telekom AG	Weyhe	Germany	79.206.45.38	Lower Saxony	28844
AS3320 Deutsche Telekom AG	Warendorf	Germany	79.203.140.78	North Rhine-Westphalia	48231
AS3320 Deutsche Telekom AG	Laatzen	Germany	79.194.38.15	Lower Saxony	30880
AS3320 Deutsche Telekom AG	Eberbach	Germany	79.193.171.32	Baden-Württemberg Region	69412
AS30784 Iskratelecom CJSC	Moscow	Russia	79.172.91.224	Moscow	102128
AS3352 Telefonica De Espana	Santa Cruz de Tenerife	Spain	79.158.178.128	Canary Islands	38001
AS3352 Telefonica De Espana	Madrid	Spain	79.156.222.168	Madrid	28001
AS3352 Telefonica De Espana	Palma	Spain	79.156.16.58	Balearic Islands	07007
AS3352 Telefonica De Espana	Madrid	Spain	79.155.75.197	Madrid	28029
AS3352 Telefonica De Espana	A Coruña	Spain	79.152.241.1	Galicia	15177
AS3352 Telefonica De Espana	Lugo	Spain	79.150.86.89	Galicia	27297
AS3352 Telefonica De Espana	La Carolina	Spain	79.150.139.181	Andalusia	23200
AS3352 Telefonica De Espana	Almendralejo	Spain	79.148.199.158	Extremadura	06200
AS3352 Telefonica De Espana	Zaragoza	Spain	79.145.95.39	Aragon	50003
AS16276 OVH SAS	Roubaix	France	79.137.74.209	Nord-Pas-de-Calais	
AS16276 OVH SAS	Roubaix	France	79.137.70.15	Nord-Pas-de-Calais	
AS16276 OVH SAS	Dublin	Ireland	79.137.26.122	Leinster	
AS3269 Telecom Italia	Rome	Italy	79.12.239.48	Latium	00134
AS8708 RCS & RDS	Hunedoara	Romania	79.118.54.96	Hunedoara	331138
AS8708 RCS & RDS	Caransebes	Romania	79.118.29.44	Judetul Caras-Severin	325400
AS8708 RCS & RDS	Arad	Romania	79.118.177.223	Arad	310001
AS8708 RCS & RDS	Oradea	Romania	79.117.30.30	Bihor	410008
AS8708 RCS & RDS	Arad	Romania	79.113.204.160	Arad	310001
AS12357 Vodafone Spain	Murcia	Spain	79.109.144.153	Murcia	30002
AS6739 Vodafone Ono, S.A.	Palencia	Spain	79.109.116.114	Castille and León	34001
AS2119 Telenor Norge AS	Stockholm	Sweden	79.102.134.28	Stockholm	173 11
AS3269 Telecom Italia	Conversano	Italy	79.1.128.237	Apulia	70014

AS6830 Liberty Global Operations B.V.	Campia Turzii	Romania	78.96.177.113	Judetul Cluj	405100
AS20911 Net-Surf.net Ltd.	Kozloduy	Bulgaria	78.90.237.34	Oblast Vratsa	3320
AS29580 Mobiltel Ead	Varna	Bulgaria	78.83.223.71	Varna	9000
AS3301 Telia Company AB	Svedala	Sweden	78.72.69.164	Skåne	233 01
AS3301 Telia Company AB	Overhorns	Sweden	78.72.24.9	Västernorrland	894 41
AS3301 Telia Company AB	Falkenberg	Sweden	78.69.154.140	Halland	311 01
AS6805 Telefonica Germany	Mülheim	Germany	78.53.161.223	North Rhine-Westphalia	45403
AS6805 Telefonica Germany	Berlin	Germany	78.52.81.113	Land Berlin	12529
AS6805 Telefonica Germany	Hamburg	Germany	78.51.28.225	Hamburg	22607
AS8968 BT Italia S.p.A.	Bari	Italy	78.5.0.234	Apulia	70122
AS8968 BT Italia S.p.A.	Rome	Italy	78.4.19.25	Latium	
AS8422 NetCologne GmbH	Cologne	Germany	78.35.223.90	North Rhine-Westphalia	50825
AS8422 NetCologne GmbH	Cologne	Germany	78.35.148.14	North Rhine-Westphalia	51067
AS8422 NetCologne GmbH	Cologne	Germany	78.34.254.22	North Rhine-Westphalia	50677
AS8422 NetCologne GmbH	Cologne	Germany	78.34.211.28	North Rhine-Westphalia	50670
AS12322 Free SAS	Saint-Brieuc	France	78.248.201.188	Brittany	22000
AS12322 Free SAS	Hyères	France	78.242.253.217	Provence-Alpes-Côte d'Azur	83400
AS12322 Free SAS	Herblay	France	78.233.25.210	Île-de-France	95220
AS12322 Free SAS	Esbarres	France	78.232.153.37	Bourgogne-Franche-Comte	21170
AS12322 Free SAS	Saint-Etienne-de-Valoux	France	78.230.181.193	Auvergne-Rhone-Alpes	42000
AS12322 Free SAS	Montoir-de-Bretagne	France	78.227.9.24	Pays de la Loire	44550
AS6848 Telenet BVBA	Sint-Niklaas	Belgium	78.22.52.142	Flanders	9100
AS6848 Telenet BVBA	Ninove	Belgium	78.22.39.33	Flanders	9401
AS12322 Free SAS	Lamanon	France	78.218.56.121	Provence-Alpes-Côte d'Azur	13113
AS12322 Free SAS	Longeville-les-Saint-Avoid	France	78.216.231.80	Grand-Est	57740
AS12322 Free SAS	Decines-Charpieu	France	78.215.125.94	Auvergne-Rhone-Alpes	69150
AS12322 Free SAS	Plelo	France	78.207.121.64	Brittany	22170
AS6848 Telenet BVBA	Aalst	Belgium	78.20.240.202	Flanders	9310
AS12322 Free SAS	Argences	France	78.198.129.125	Normandy	14370
AS12322 Free SAS	Les Vans	France	78.195.32.235	Auvergne-Rhone-Alpes	07140
AS9121 Turk Telekom	Istanbul	Turkey	78.188.194.197	Istanbul	
AS9121 Turk Telekom	Kayseri	Turkey	78.173.234.26	Kayseri	
AS42831 UK Dedicated Servers Limited	Rugby	United Kingdom	78.157.223.134	England	
AS8228 SFR SA	Royan	France	78.125.224.84	Nouvelle-Aquitaine	17200
AS8228 SFR SA	Dieulefit	France	78.125.192.35	Auvergne-Rhone-Alpes	26220
AS8228 SFR SA	Alissas	France	78.121.130.20	Auvergne-Rhone-Alpes	07210

AS8228 SFR SA	Marennes	France	78.116.83.94	Nouvelle-Aquitaine	17320
AS8228 SFR SA	Valenciennes	France	78.116.36.211	Hauts-de-France	59300
AS8228 SFR SA	Poitiers	France	78.115.6.247	Nouvelle-Aquitaine	86280
AS8228 SFR SA	Angers	France	78.114.242.195	Pays de la Loire	
AS43708 METRONET s.r.o.	Mala Skala	Czechia	78.110.213.142	Liberecky kraj	468 22
AS39232 Uninet	Baku	Azerbaijan	78.109.53.73	Baku City	
AS35805 JSC Silknet	Tbilisi	Georgia	77.92.247.184	K'alak'i T'bilisi	
AS8866 Vivacom	Kardzhali	Bulgaria	77.85.234.32	Oblast Kardzhali	6600
AS25406 Splius, Uab	Šiauliai	Republic of Lithuania	77.79.39.80	Siauliai	76001
AS31261 GARS Telecom - Telecommunications Management LLC	Moscow	Russia	77.74.78.141	Moscow	102128
AS42226 Complex Telecommunications Ltd	Moscow	Russia	77.72.22.57	Moscow	102128
AS35141 Mobiltel Ead	Sofia	Bulgaria	77.70.54.99	Sofia-Capital	1000
AS3257 GTT Communications Inc.	Paris	France	77.67.66.69	Île-de-France	
AS6830 Liberty Global Operations B.V.	Courroux	Switzerland	77.57.9.111	Jura	2822
AS15967 Nazwa.pl Sp.z.o.o.	Krakow (Grzegórzki)	Poland	77.55.25.102	Lesser Poland Voivodeship	
AS31400 Accelerated IT Services GmbH	Frankfurt am Main	Germany	77.37.106.198	Hesse	60313
AS6821 Makedonski Telekom AD-Skopje	Skopje	Macedonia	77.28.88.86	Opstina Karpos	1000
AS6821 Makedonski Telekom AD-Skopje	Skopje	Macedonia	77.28.30.63	Opstina Karpos	1000
AS6821 Makedonski Telekom AD-Skopje	Skopje	Macedonia	77.28.211.56	Opstina Karpos	1000
AS6830 Liberty Global Operations B.V.	Amsterdam	Netherlands	77.251.62.62	North Holland	1078
AS6830 Liberty Global Operations B.V.	Nijmegen	Netherlands	77.249.2.60	Provincie Gelderland	6538
AS6830 Liberty Global Operations B.V.	Dordrecht	Netherlands	77.248.237.21	South Holland	3317
AS12772 JSC ER-Telecom Holding	Moscow	Russia	77.236.233.181	Moscow	102128
AS42478 Yug-Link Ltd.	Krasnodar	Russia	77.233.20.159	Krasnodarskiy Kray	350000
AS31334 Vodafone Kabel Deutschland GmbH	Braunschweig	Germany	77.23.209.96	Lower Saxony	38106
AS9158 Telenor A/S	Copenhagen	Denmark	77.215.247.234	Capital Region	
AS15557 SFR SA	Saint-Jean-de-Moirans	France	77.202.162.176	Auvergne-Rhone-Alpes	38430
AS31334 Vodafone Kabel Deutschland GmbH	Wolfsburg	Germany	77.20.234.29	Lower Saxony	38442
AS15557 SFR SA	Le Mans	France	77.199.219.26	Pays de la Loire	72000

AS15557 SFR SA	Narbonne	France	77.196.92.19	Occitanie	11100
AS6805 Telefonica Germany	Munich	Germany	77.190.63.159	Bavaria	81371
AS6805 Telefonica Germany	Munich	Germany	77.189.146.150	Bavaria	80796
AS6805 Telefonica Germany	Lengede	Germany	77.188.7.153	Lower Saxony	38268
AS6805 Telefonica Germany	Hamburg	Germany	77.188.48.160	Hamburg	20095
AS6805 Telefonica Germany	Hamburg	Germany	77.188.118.160	Hamburg	20095
AS6805 Telefonica Germany	Hamburg	Germany	77.188.109.90	Hamburg	22117
AS6805 Telefonica Germany	Hamburg	Germany	77.188.1.79	Hamburg	20095
AS6805 Telefonica Germany	Hamburg	Germany	77.187.157.180	Hamburg	20095
AS6805 Telefonica Germany	Hamburg	Germany	77.186.13.142	Hamburg	22303
AS6805 Telefonica Germany	Dusseldorf	Germany	77.182.82.169	North Rhine-Westphalia	40217
AS6805 Telefonica Germany	Berlin	Germany	77.180.216.90	Land Berlin	12529
AS6805 Telefonica Germany	Frankfurt am Main	Germany	77.178.186.236	Hesse	60313
AS6805 Telefonica Germany	Mainz	Germany	77.176.226.50	Rheinland-Pfalz	55118
AS12871 KPN B.V.	Rotterdam	Netherlands	77.174.110.251	South Holland	
AS15557 SFR SA	Juillan	France	77.150.27.103	Occitanie	65290
AS15557 SFR SA	Jeumont	France	77.149.123.130	Hauts-de-France	59460
AS15557 SFR SA	Le Passage	France	77.148.154.50	Nouvelle-Aquitaine	47520
AS15557 SFR SA	Saint-Paul-en-Jarez	France	77.148.13.188	Auvergne-Rhone-Alpes	42740
AS15557 SFR SA	Rezé	France	77.148.108.56	Pays de la Loire	44400
AS15557 SFR SA	Rambervillers	France	77.135.131.248	Grand-Est	88700
AS15557 SFR SA	Montemboeuf	France	77.134.17.69	Nouvelle-Aquitaine	16310
AS15557 SFR SA	Vic-en-Bigorre	France	77.133.26.190	Occitanie	65500
AS15557 SFR SA	Fleurigne	France	77.131.114.73	Brittany	35133
AS25229 Volia	Lviv	Ukraine	77.123.160.127	L'vivs'ka Oblast'	79025
AS25229 Volia	Kryvyi Rih	Ukraine	77.122.166.86	Dnipro	
AS25229 Volia	Khmelnyskyi	Ukraine	77.121.165.176	Khmel'nyts'ka Oblast'	29000
AS6805 Telefonica Germany	Dillingen	Germany	77.11.144.50	Saarland	66763
AS35706 Net at Once Sweden AB	Malmo	Sweden	77.105.218.24	Skåne	215 26
AS36351 SoftLayer Technologies Inc.	Singapore	Singapore	77.104.169.213	Central Singapore	

AS7922 Comcast Cable Communications, LLC	Marcus Hook	United States	76.98.62.91	Pennsylvania	19061
AS17185 Quonix Networks Inc.	King of Prussia	United States	76.8.57.2	Pennsylvania	
AS15153 Star Wireless, Inc.	Bladenboro	United States	76.8.110.21	North Carolina	28320
AS13787 Embarq Corporation	Johnson City	United States	76.7.142.8	Tennessee	37615
AS10796 Time Warner Cable Internet LLC	Kansas City	United States	76.54.49.141	Missouri	
AS7922 Comcast Cable Communications, LLC	League City	United States	76.30.2.234	Texas	77573
AS7922 Comcast Cable Communications, LLC	Arlington	United States	76.26.158.158	Virginia	22206
AS7922 Comcast Cable Communications, LLC	Arlington	United States	76.26.150.43	Virginia	22201
AS7922 Comcast Cable Communications, LLC	Loveland	United States	76.25.205.35	Colorado	80537
AS7922 Comcast Cable Communications, LLC	Seattle	United States	76.22.40.73	Washington	98102
AS7922 Comcast Cable Communications, LLC	Folsom	United States	76.20.50.19	California	95630
AS7922 Comcast Cable Communications, LLC	Boston	United States	76.19.147.75	Massachusetts	02127
AS11426 Time Warner Cable Internet LLC	Durham	United States	76.182.8.127	North Carolina	27713
AS10796 Time Warner Cable Internet LLC	Van Wert	United States	76.181.216.136	Ohio	45891
AS7922 Comcast Cable Communications, LLC	Hanford	United States	76.127.87.142	California	93230
AS7922 Comcast Cable Communications, LLC	Jacksonville	United States	76.122.62.225	Florida	32225
AS7922 Comcast Cable Communications, LLC	Longmeadow	United States	76.118.240.102	Massachusetts	01106
AS7922 Comcast Cable Communications, LLC	Point Pleasant Beach	United States	76.117.221.65	New Jersey	08742
AS7922 Comcast Cable Communications, LLC	Detroit	United States	76.112.11.54	Michigan	48206
AS7922 Comcast Cable Communications, LLC	Detroit	United States	76.112.11.24	Michigan	48227
AS7922 Comcast Cable Communications, LLC	Lilburn	United States	76.111.42.160	Georgia	30047
AS7922 Comcast Cable Communications, LLC	Miami	United States	76.109.205.72	Florida	33173
AS7922 Comcast Cable Communications, LLC	West Palm Beach	United States	76.108.119.232	Florida	33411
AS7922 Comcast Cable Communications, LLC	Olive Branch	United States	76.107.181.58	Mississippi	38654
AS7922 Comcast Cable Communications, LLC	Waldorf	United States	76.106.91.138	Maryland	20601

AS7922 Comcast Cable Communications, LLC	Novato	United States	76.102.189.54	California	94945
AS7922 Comcast Cable Communications, LLC	Elkton	United States	76.100.135.101	Maryland	21921
AS6128 Cablevision Systems Corp.	Hawthorne	United States	75.99.96.253	New Jersey	07506
AS55293 A2 Hosting, Inc.	Ann Arbor	United States	75.98.161.70	Michigan	48106
AS7922 Comcast Cable Communications, LLC	Eden Prairie	United States	75.73.154.155	Minnesota	55347
AS7922 Comcast Cable Communications, LLC	Plymouth	United States	75.67.120.10	Massachusetts	02360
AS10796 Time Warner Cable Internet LLC	Urbana	United States	75.185.92.54	Ohio	43078
AS11426 Time Warner Cable Internet LLC	Charlotte	United States	75.181.137.130	North Carolina	28277
AS11426 Time Warner Cable Internet LLC	Charlotte	United States	75.176.52.45	North Carolina	28213
AS209 Qwest Communications Company, LLC	Colorado Springs	United States	75.173.248.219	Colorado	80908
AS209 Qwest Communications Company, LLC	Salt Lake City	United States	75.169.219.105	Utah	84106
AS209 Qwest Communications Company, LLC	Saint Paul	United States	75.168.76.254	Minnesota	55108
AS209 Qwest Communications Company, LLC	Saint Paul	United States	75.168.231.59	Minnesota	55104
AS209 Qwest Communications Company, LLC	Colorado Springs	United States	75.163.181.97	Colorado	80915
AS852 TELUS Communications Inc.	Mont-Joli	Canada	75.152.46.151	Quebec	G5H
AS20115 Charter Communications	Buxton	United States	75.139.26.67	North Carolina	27920
AS20115 Charter Communications	Belleville	United States	75.132.169.204	Illinois	62221
AS20115 Charter Communications	Boone	United States	75.130.132.79	North Carolina	28607
AS12083 WideOpenWest Finance LLC	Columbus	United States	75.118.168.8	Ohio	43229
AS4181 TDS TELECOM	Grover Hill	United States	75.100.111.3	Ohio	45849
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Altoona	United States	74.98.8.145	Pennsylvania	16601
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Cranston	United States	74.97.44.172	Rhode Island	02920

AS11351 Time Warner Cable Internet LLC	Whitesboro	United States	74.79.79.35	New York	13492
AS11351 Time Warner Cable Internet LLC	Lowville	United States	74.78.248.82	New York	13367
AS12271 Time Warner Cable Internet LLC	Jackson Heights	United States	74.72.178.179	New York	11372
AS12271 Time Warner Cable Internet LLC	Fort Lee	United States	74.68.32.110	New Jersey	07024
AS12271 Time Warner Cable Internet LLC	Brooklyn	United States	74.64.42.51	New York	11211
AS12271 Time Warner Cable Internet LLC	New York	United States	74.64.121.190	New York	10024
AS5769 Videotron Telecom Ltee	Québec	Canada	74.59.250.10	Quebec	G1H
AS7018 AT&T; Services, Inc.	Asheville	United States	74.243.232.79	North Carolina	28801
AS6181 Cincinnati Bell Telephone Company LLC	Cincinnati	United States	74.215.74.35	Ohio	45236
AS10796 Time Warner Cable Internet LLC	Louisville	United States	74.134.218.129	Kentucky	40241
AS10796 Time Warner Cable Internet LLC	Louisville	United States	74.134.175.111	Kentucky	40219
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Schenectady	United States	74.109.187.229	New York	12304
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Westwood	United States	74.105.52.125	New Jersey	07675
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Union	United States	74.102.211.211	New Jersey	07083
AS7922 Comcast Cable Communications, LLC	Kelso	United States	73.96.37.21	Washington	98626
AS7922 Comcast Cable Communications, LLC	Brunswick	United States	73.89.73.185	Maine	04011
AS7922 Comcast Cable Communications, LLC	Houston	United States	73.77.232.36	Texas	77070
AS7922 Comcast Cable Communications, LLC	Millbrae	United States	73.71.80.158	California	94030
AS7922 Comcast Cable Communications, LLC	Edgartown	United States	73.68.186.210	Massachusetts	02568
AS7922 Comcast Cable Communications, LLC	Portland	United States	73.67.252.22	Oregon	97222
AS7922 Comcast Cable Communications, LLC	Lady Lake	United States	73.67.108.170	Florida	32159
AS7922 Comcast Cable Communications, LLC	Sacramento	United States	73.66.100.32	California	95864
AS7922 Comcast Cable Communications, LLC	Layton	United States	73.65.230.18	Utah	84041

AS7922 Comcast Cable Communications, LLC	Reading	United States	73.64.227.113	Pennsylvania	19607
AS7922 Comcast Cable Communications, LLC	Berwyn	United States	73.50.17.163	Illinois	60402
AS7922 Comcast Cable Communications, LLC	East Hampton	United States	73.47.34.153	Connecticut	06424
AS7922 Comcast Cable Communications, LLC	Mount Prospect	United States	73.36.91.128	Illinois	60056
AS7922 Comcast Cable Communications, LLC	Humble	United States	73.32.85.178	Texas	77396
AS7922 Comcast Cable Communications, LLC	Missouri City	United States	73.255.35.124	Texas	77489
AS7922 Comcast Cable Communications, LLC	Tacoma	United States	73.254.17.17	Washington	98409
AS7922 Comcast Cable Communications, LLC	Graham	United States	73.254.105.154	Washington	98338
AS7922 Comcast Cable Communications, LLC	Corvallis	United States	73.25.113.148	Oregon	97330
AS7922 Comcast Cable Communications, LLC	La Porte	United States	73.247.47.90	Indiana	46350
AS7922 Comcast Cable Communications, LLC	Mishawaka	United States	73.247.176.148	Indiana	46544
AS7922 Comcast Cable Communications, LLC	West Palm Beach	United States	73.244.180.146	Florida	33414
AS7922 Comcast Cable Communications, LLC	Loveland	United States	73.243.226.161	Colorado	80538
AS7922 Comcast Cable Communications, LLC	Chico	United States	73.235.47.80	California	95973
AS7922 Comcast Cable Communications, LLC	Galveston	United States	73.232.45.243	Texas	77551
AS7922 Comcast Cable Communications, LLC	Newark	United States	73.231.66.122	California	94560
AS7922 Comcast Cable Communications, LLC	San Francisco	United States	73.231.222.183	California	94123
AS7922 Comcast Cable Communications, LLC	Albuquerque	United States	73.228.30.207	New Mexico	87113
AS7922 Comcast Cable Communications, LLC	Los Gatos	United States	73.222.30.245	California	95032
AS7922 Comcast Cable Communications, LLC	Saint Charles	United States	73.22.246.57	Illinois	60174
AS7922 Comcast Cable Communications, LLC	Urbana	United States	73.22.119.225	Illinois	61801
AS7922 Comcast Cable Communications, LLC	Independence	United States	73.217.252.235	Missouri	64055
AS7922 Comcast Cable Communications, LLC	Mantua	United States	73.215.105.174	New Jersey	08051
AS7922 Comcast Cable Communications, LLC	Chicago	United States	73.210.113.144	Illinois	60647

AS7922 Comcast Cable Communications, LLC	Ocala	United States	73.21.253.168	Florida	34472
AS7922 Comcast Cable Communications, LLC	Villa Rica	United States	73.207.186.207	Georgia	30180
AS7922 Comcast Cable Communications, LLC	West Palm Beach	United States	73.204.216.125	Florida	33407
AS7922 Comcast Cable Communications, LLC	Mount Holly	United States	73.198.252.83	New Jersey	08060
AS7922 Comcast Cable Communications, LLC	Browns Mills	United States	73.196.195.47	New Jersey	08015
AS7922 Comcast Cable Communications, LLC	Middletown	United States	73.194.251.215	New Jersey	07748
AS7922 Comcast Cable Communications, LLC	Lansing	United States	73.191.172.194	Michigan	48915
AS7922 Comcast Cable Communications, LLC	Lee's Summit	United States	73.185.207.239	Missouri	64064
AS7922 Comcast Cable Communications, LLC	Tacoma	United States	73.169.136.50	Washington	98466
AS7922 Comcast Cable Communications, LLC	Berwyn	United States	73.168.32.127	Illinois	60402
AS7922 Comcast Cable Communications, LLC	Martinsburg	United States	73.163.242.90	West Virginia	25404
AS7922 Comcast Cable Communications, LLC	Bloomfield Hills	United States	73.161.104.122	Michigan	48302
AS7922 Comcast Cable Communications, LLC	Sewell	United States	73.160.59.54	New Jersey	08080
AS7922 Comcast Cable Communications, LLC	Orrs Island	United States	73.16.26.246	Maine	04066
AS7922 Comcast Cable Communications, LLC	East Hartford	United States	73.16.116.117	Connecticut	06108
AS7922 Comcast Cable Communications, LLC	Richmond	United States	73.152.77.138	Virginia	23228
AS7922 Comcast Cable Communications, LLC	Salem	United States	73.149.212.109	New Hampshire	03079
AS7922 Comcast Cable Communications, LLC	Indianapolis	United States	73.146.198.169	Indiana	46219
AS7922 Comcast Cable Communications, LLC	Lawrenceburg	United States	73.146.193.124	Indiana	47025
AS7922 Comcast Cable Communications, LLC	Colorado Springs	United States	73.14.170.133	Colorado	80906
AS7922 Comcast Cable Communications, LLC	Jensen Beach	United States	73.138.13.86	Florida	34957
AS7922 Comcast Cable Communications, LLC	Norcross	United States	73.137.210.81	Georgia	30092
AS7922 Comcast Cable Communications, LLC	Rosedale	United States	73.134.119.176	Maryland	21237
AS7922 Comcast Cable Communications, LLC	Charlestown	United States	73.126.1.144	Massachusetts	02129

AS7922 Comcast Cable Communications, LLC	Tavares	United States	73.120.141.149	Florida	32778
AS7922 Comcast Cable Communications, LLC	Renton	United States	73.109.208.152	Washington	98059
AS7922 Comcast Cable Communications, LLC	Olympia	United States	73.109.18.245	Washington	98502
AS7922 Comcast Cable Communications, LLC	Rahway	United States	73.10.252.90	New Jersey	07065
AS7922 Comcast Cable Communications, LLC	Fort Lauderdale	United States	73.0.28.215	Florida	33309
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Springfield	United States	72.92.39.87	Pennsylvania	19064
AS26864 4DVISION LLC	Saint George	United States	72.8.121.24	Utah	84790
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Arlington	United States	72.66.39.225	Virginia	22205
AS10396 DATACOM CARIBE, INC.	Guaynabo	Puerto Rico	72.50.46.98		00965
AS10396 DATACOM CARIBE, INC.	Bayamón	Puerto Rico	72.50.40.78		00956
AS10396 DATACOM CARIBE, INC.	San Juan	Puerto Rico	72.50.36.138		00917
AS10396 DATACOM CARIBE, INC.	Caguas	Puerto Rico	72.50.102.30		00725
AS12179 Internap Network Services Corporation	Irving	United States	72.5.252.172	Texas	75063
AS6181 Cincinnati Bell Telephone Company LLC	Cincinnati	United States	72.49.80.145	Ohio	45239
AS6181 Cincinnati Bell Telephone Company LLC	Fort Thomas	United States	72.49.64.146	Kentucky	41075
AS11427 Time Warner Cable Internet LLC	Waco	United States	72.191.216.130	Texas	76706
AS33363 BRIGHT HOUSE NETWORKS, LLC	New Port Richey	United States	72.186.62.138	Florida	34653
AS33363 BRIGHT HOUSE NETWORKS, LLC	Wesley Chapel	United States	72.186.124.152	Florida	33545
AS33363 BRIGHT HOUSE NETWORKS, LLC	Beverly Hills	United States	72.185.10.145	Florida	34465
AS33363 BRIGHT HOUSE NETWORKS, LLC	Beverly Hills	United States	72.185.1.165	Florida	34465
AS33363 BRIGHT HOUSE NETWORKS, LLC	Bradenton	United States	72.184.178.134	Florida	34207
AS26496 GoDaddy.com, LLC	Scottsdale	United States	72.167.223.218	Arizona	85260
AS13342 Trenton TV Cable Company	Bardstown	United States	72.159.39.225	Kentucky	40004
AS16532 B2B2C Inc	Montreal	Canada	72.10.145.49	Quebec	H4R

AS20115 Charter Communications	Riverside	United States	71.9.93.170	California	92509
AS20115 Charter Communications	Rancho Cucamonga	United States	71.84.208.241	California	91730
AS11426 Time Warner Cable Internet LLC	Raleigh	United States	71.69.225.90	North Carolina	27609
AS7922 Comcast Cable Communications, LLC	Buena Vista	United States	71.62.242.165	Virginia	24416
AS14265 TPx Communications	Bethel Island	United States	71.6.65.65	California	94511
AS7922 Comcast Cable Communications, LLC	Lancaster	United States	71.58.142.130	Pennsylvania	17601
AS7922 Comcast Cable Communications, LLC	Atlanta	United States	71.56.70.46	Georgia	30338
AS7922 Comcast Cable Communications, LLC	Greeley	United States	71.56.228.118	Colorado	80634
AS209 Qwest Communications Company, LLC	Summerfield	United States	71.55.160.201	Florida	34491
AS209 Qwest Communications Company, LLC	Bellefontaine	United States	71.50.34.31	Ohio	43311
AS33363 BRIGHT HOUSE NETWORKS, LLC	Birmingham	United States	71.45.41.28	Alabama	35226
AS209 Qwest Communications Company, LLC	Las Vegas	United States	71.38.84.53	Nevada	89166
AS209 Qwest Communications Company, LLC	Las Vegas	United States	71.38.160.47	Nevada	89179
AS7029 Windstream Communications LLC	Inman	United States	71.30.121.35	South Carolina	29349
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Great Falls	United States	71.246.232.144	Virginia	22066
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Bowie	United States	71.246.199.27	Maryland	20715
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Severn	United States	71.244.167.129	Maryland	21144
AS7922 Comcast Cable Communications, LLC	Murfreesboro	United States	71.228.167.177	Tennessee	37129
AS7922 Comcast Cable Communications, LLC	Savannah	United States	71.228.128.208	Georgia	31401
AS7922 Comcast Cable Communications, LLC	Linden	United States	71.226.248.164	New Jersey	07036
AS7922 Comcast Cable Communications, LLC	Norristown	United States	71.224.232.248	Pennsylvania	19403

AS209 Qwest Communications Company, LLC	Lehigh Acres	United States	71.215.1.201	Florida	33974
AS209 Qwest Communications Company, LLC	Ada	United States	71.213.255.79	Ohio	45810
AS209 Qwest Communications Company, LLC	Seattle	United States	71.212.13.155	Washington	98103
AS209 Qwest Communications Company, LLC	Gilbert	United States	71.211.74.5	Arizona	85295
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Princeton	United States	71.188.122.197	New Jersey	08540
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Kennett Square	United States	71.185.60.82	Pennsylvania	19348
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Dundalk	United States	71.179.104.216	Maryland	21222
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Ridgewood	United States	71.172.60.189	New Jersey	07450
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Randallstown	United States	71.127.145.170	Maryland	21133
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	East Northport	United States	71.125.31.1	New York	11731
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Rockville Centre	United States	71.125.224.145	New York	11570
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Pittsburgh	United States	71.112.183.6	Pennsylvania	15215
AS20001 Time Warner Cable Internet LLC	San Diego	United States	70.95.70.63	California	92130
AS7922 Comcast Cable Communications, LLC	Vashon	United States	70.89.136.214	Washington	98070
AS7922 Comcast Cable Communications, LLC	North Easton	United States	70.88.245.26	Massachusetts	02356
AS5769 Videotron Telecom Ltee	Québec	Canada	70.82.46.149	Quebec	G2B
AS11426 Time Warner Cable Internet LLC	Columbia	United States	70.61.213.217	South Carolina	29209
AS10796 Time Warner Cable Internet LLC	Higginsport	United States	70.60.184.195	Ohio	45131
AS209 Qwest Communications Company, LLC	Denver	United States	70.58.2.226	Colorado	80215

AS36423 San Juan Cable, LLC	Carolina	Puerto Rico	70.45.81.175		00983
AS7065 Sonoma Interconnect	Santa Rosa	United States	70.36.177.10	California	95404
AS31815 Media Temple, Inc.	Culver City	United States	70.32.83.172	California	90232
AS22773 Cox Communications Inc.	Destin	United States	70.191.186.90	Florida	32541
AS22773 Cox Communications Inc.	Green Valley	United States	70.176.80.106	Arizona	85614
AS33363 BRIGHT HOUSE NETWORKS, LLC	Ruskin	United States	70.126.85.40	Florida	33570
AS33363 BRIGHT HOUSE NETWORKS, LLC	Spring Hill	United States	70.126.118.205	Florida	34609
AS11427 Time Warner Cable Internet LLC	Dallas	United States	70.123.107.202	Texas	75231
AS11427 Time Warner Cable Internet LLC	Richardson	United States	70.121.50.83	Texas	75082
AS11427 Time Warner Cable Internet LLC	El Paso	United States	70.120.161.169	Texas	79912
AS11427 Time Warner Cable Internet LLC	Laredo	United States	70.113.167.15	Texas	78046
AS11427 Time Warner Cable Internet LLC	Austin	United States	70.112.163.28	Texas	78758
AS17306 JAB Wireless, INC.	Tuscola	United States	69.39.32.75	Texas	79562
AS7029 Windstream Communications LLC	Charleston	United States	69.38.63.154	South Carolina	29403
AS7922 Comcast Cable Communications, LLC	Naples	United States	69.254.48.66	Florida	34112
AS7922 Comcast Cable Communications, LLC	East Brunswick	United States	69.248.81.168	New Jersey	08816
AS7922 Comcast Cable Communications, LLC	Memphis	United States	69.246.95.11	Tennessee	38112
AS11351 Time Warner Cable Internet LLC	Grand Island	United States	69.207.13.175	New York	14072
AS12271 Time Warner Cable Internet LLC	Ridgewood	United States	69.203.70.79	New York	11385
AS12271 Time Warner Cable Internet LLC	New York	United States	69.202.194.137	New York	10012
AS11351 Time Warner Cable Internet LLC	New Hartford	United States	69.201.75.158	New York	13413
AS7922 Comcast Cable Communications, LLC	San Francisco	United States	69.181.59.10	California	94112
AS812 Rogers Communications Canada Inc.	Toronto	Canada	69.17.128.158	Ontario	M4Y
AS4181 TDS TELECOM	New Berlin	United States	69.128.126.162	Wisconsin	53151

AS7922 Comcast Cable Communications, LLC	Philadelphia	United States	68.82.66.106	Pennsylvania	19120
AS7922 Comcast Cable Communications, LLC	Philadelphia	United States	68.81.182.181	Pennsylvania	19116
AS7922 Comcast Cable Communications, LLC	Philadelphia	United States	68.80.46.55	Pennsylvania	19104
AS7922 Comcast Cable Communications, LLC	King of Prussia	United States	68.80.241.226	Pennsylvania	19406
AS7922 Comcast Cable Communications, LLC	Tallahassee	United States	68.63.26.36	Florida	32305
AS7922 Comcast Cable Communications, LLC	Grand Rapids	United States	68.62.105.66	Michigan	49506
AS7922 Comcast Cable Communications, LLC	Okemos	United States	68.61.149.221	Michigan	48864
AS7922 Comcast Cable Communications, LLC	Marysville	United States	68.60.95.7	Michigan	48040
AS7922 Comcast Cable Communications, LLC	West Lafayette	United States	68.50.194.223	Indiana	47906
AS7922 Comcast Cable Communications, LLC	Lansing	United States	68.49.125.176	Michigan	48917
AS7922 Comcast Cable Communications, LLC	Pendleton	United States	68.44.126.227	Indiana	46064
AS7922 Comcast Cable Communications, LLC	Fort Wayne	United States	68.39.30.134	Indiana	46835
AS7922 Comcast Cable Communications, LLC	Detroit	United States	68.37.243.159	Michigan	48210
AS7922 Comcast Cable Communications, LLC	Washington	United States	68.37.160.197	Michigan	48094
AS7922 Comcast Cable Communications, LLC	West Bloomfield	United States	68.32.87.15	Michigan	48322
AS12271 Time Warner Cable Internet LLC	New York	United States	68.174.64.34	New York	10002
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Buffalo	United States	68.133.17.77	New York	14228
AS22773 Cox Communications Inc.	Baton Rouge	United States	68.107.168.225	Louisiana	70808
AS209 Qwest Communications Company, LLC	Rochester	United States	67.5.33.165	Minnesota	55906
AS32244 Liquid Web, L.L.C	Lansing	United States	67.43.8.213	Michigan	48917
AS209 Qwest Communications Company, LLC	Aurora	United States	67.40.129.48	Colorado	80016
AS209 Qwest Communications Company, LLC	Duluth	United States	67.3.51.113	Minnesota	55811
AS11351 Time Warner Cable Internet LLC	Owego	United States	67.252.83.91	New York	13827

AS209 Qwest Communications Company, LLC	Wellsville	United States	67.239.113.13	Kansas	66092
AS13787 Embarq Corporation	Johnson City	United States	67.232.88.104	Tennessee	37604
AS5758 ALPHA ENTERPRISES LIMITED, INC.	Felch	United States	67.22.9.227	Michigan	49831
AS13911 Tera-byte Dot Com Inc.	Sherwood Park	Canada	67.211.66.11	Alberta	T8C
AS7922 Comcast Cable Communications, LLC	Colorado Springs	United States	67.190.159.221	Colorado	80916
AS7922 Comcast Cable Communications, LLC	Salt Lake City	United States	67.182.245.7	Utah	84119
AS7922 Comcast Cable Communications, LLC	Stockton	United States	67.181.90.69	California	95206
AS7922 Comcast Cable Communications, LLC	San Francisco	United States	67.174.198.151	California	94109
AS7922 Comcast Cable Communications, LLC	Augusta	United States	67.173.212.60	Georgia	30906
AS7922 Comcast Cable Communications, LLC	Nashville	United States	67.172.106.11	Tennessee	37208
AS7922 Comcast Cable Communications, LLC	Puyallup	United States	67.168.142.98	Washington	98372
AS7922 Comcast Cable Communications, LLC	Portland	United States	67.166.81.65	Oregon	97213
AS11427 Time Warner Cable Internet LLC	San Antonio	United States	67.10.158.215	Texas	78218
AS11427 Time Warner Cable Internet LLC	Austin	United States	66.69.249.98	Texas	78748
AS14265 TPx Communications	Sacramento	United States	66.59.19.129	California	95814
AS19318 NEW JERSEY INTERNATIONAL INTERNET EXCHANGE LLC	Secaucus	United States	66.45.237.113	New Jersey	07094
AS7922 Comcast Cable Communications, LLC	New Ulm	United States	66.41.242.170	Minnesota	56073
AS7859 pair Networks	Pittsburgh	United States	66.39.139.197	Pennsylvania	15203
AS3561 Savvis	Chesterfield	United States	66.37.222.214	Missouri	63017
AS8001 Net Access Corporation	Denver	United States	66.29.90.254	Colorado	80202
AS11620 Succeed.Net	Yuba City	United States	66.255.231.19	California	95991
AS63949 Linode, LLC	Dallas	United States	66.228.48.164	Texas	75270
AS7922 Comcast Cable Communications, LLC	Callahan	United States	66.177.84.81	Florida	32011
AS19271 Peak 10	Lexington	United States	66.129.117.195	North Carolina	27295
AS13536 Tech Valley Communications	Albany	United States	66.109.34.209	New York	12201

AS12271 Time Warner Cable Internet LLC	Ozone Park	United States	66.108.201.8	New York	11416
AS15169 Google LLC	Mountain View	United States	66.102.6.184	California	94043
AS8399 Sewan Communications S.A.S.	Paris	France	65.39.95.12	Île-de-France	
AS13768 Cogeco Peer 1	Atlin	Canada	65.39.211.183	British Columbia	V0W
AS10796 Time Warner Cable Internet LLC	Dayton	United States	65.28.234.66	Ohio	45458
AS32392 The Endurance International Group, Inc.	Burlington	United States	65.254.74.99	Massachusetts	01803
AS10796 Time Warner Cable Internet LLC	Alliance	United States	65.25.12.9	Ohio	44601
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Pomona	United States	65.203.141.37	California	91769
AS11426 Time Warner Cable Internet LLC	Mount Airy	United States	65.187.169.138	North Carolina	27030
AS14492 DataPipe, Inc.	Jersey City	United States	65.17.215.230	New Jersey	07302
AS209 Qwest Communications Company, LLC	New York	United States	65.158.114.136	New York	
AS209 Qwest Communications Company, LLC	Las Vegas	United States	65.153.130.89	Nevada	89169
AS209 Qwest Communications Company, LLC	Denver	United States	65.128.85.48	Colorado	80211
AS27482 American Eagle Computer Products, Inc.	Chicago	United States	65.119.160.9	Illinois	
AS209 Qwest Communications Company, LLC	Blackfoot	United States	65.102.73.20	Idaho	83221
AS11961 Mid-Rivers Telephone Cooperative	Miles City	United States	64.89.208.107	Montana	59301
AS26286 ActiveServers, Inc	Spokane	United States	64.85.4.37	Washington	99201
AS3561 Savvis	Chesterfield	United States	64.79.175.85	Missouri	63017
AS13768 Cogeco Peer 1	Parksville	Canada	64.69.92.89	British Columbia	V9P
AS6939 Hurricane Electric, Inc.	Cleveland	United States	64.62.198.143	Ohio	44192
AS13768 Cogeco Peer 1	Toronto	Canada	64.34.22.103	Ontario	M8W
	Cleveland (Downtown)	United States	64.190.166.41	Ohio	
AS11427 Time Warner Cable Internet LLC	Arlington	United States	64.183.184.193	Texas	76015
AS7132 AT&T; Internet Services	Tracy	United States	64.174.36.192	California	95376
AS31798 KW Datacenter	Kitchener	Canada	64.137.187.226	Ontario	N2E

AS209 Qwest Communications Company, LLC	Denver	United States	63.228.93.251	Colorado	80211
AS209 Qwest Communications Company, LLC	Saint Cloud	United States	63.152.222.78	Minnesota	56301
AS13480 Ongoing Operations, LLC	Hagerstown	United States	63.143.8.45	Maryland	21742
AS13480 Ongoing Operations, LLC	Thousand Oaks	United States	63.143.2.37	California	91360
AS12578 SIA Lattelecom	Talsi	Latvia	62.85.50.249	Talsi Municipality	LV-3201
AS6739 Vodafone Ono, S.A.	Roquetas de Mar	Spain	62.82.9.37	Andalusia	04740
AS8680 Sure Guernsey Limited	Saint Helier	Jersey	62.68.162.29	Saint Helier	
AS6739 Vodafone Ono, S.A.	Colindres	Spain	62.42.128.77	Cantabria	39750
AS5432 Proximus NV	Chatelet	Belgium	62.235.195.147	Wallonia	6200
AS12741 Netia SA	Poznan	Poland	62.233.156.2	Greater Poland	60-479
AS12876 Online S.a.s.	Vitry-sur-Seine	France	62.210.97.16	Île-de-France	
AS12876 Online S.a.s.	Paris	France	62.210.74.66	Île-de-France	
AS12876 Online S.a.s.	Paris (8th arrondissement of Paris)	France	62.210.194.52	Île-de-France	
AS6730 Sunrise Communications AG	St. Gallen	Switzerland	62.167.149.115	Saint Gallen	9000
AS2119 Telenor Norge AS	Ålesund	Norway	62.16.190.49	More og Romsdal fylke	6018
AS13170 Kaisanet Oy	Suomussalmi	Finland	62.145.182.181	Kainuu	89600
AS6830 Liberty Global Operations B.V.	Duisburg	Germany	62.143.46.173	North Rhine-Westphalia	47179
AS12715 Orange Espagne S.A.U.	Madrid	Spain	62.14.235.41	Madrid	28001
AS12357 Vodafone Spain	Valencia	Spain	62.117.230.205	Valencia	46012
AS13445 Cisco Webex LLC	Amsterdam (Westpoort)	Netherlands	62.109.232.162	North Holland	
AS4766 Korea Telecom	Seoul	Republic of Korea	61.77.205.191	Seoul	
AS4134 No.31,Jin-rong Street	Hefei	China	61.191.20.237	Anhui	
AS4134 No.31,Jin-rong Street	Jiangyou	China	61.157.130.32	Sichuan	
AS4808 China Unicom Beijing Province Network	Beijing	China	61.149.139.135	Beijing	
AS4134 No.31,Jin-rong Street	Kunming	China	61.138.211.169	Yunnan	
AS17676 Softbank BB Corp.	Saitama	Japan	60.90.23.204	Saitama	330-0063
AS17676 Softbank BB Corp.	Tokyo	Japan	60.86.178.3	Tokyo	190-0031

AS4837 CHINA UNICOM China169 Backbone	Tianjin	China	60.26.213.139	Tianjin	
AS4837 CHINA UNICOM China169 Backbone	Huludao	China	60.23.115.210	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	60.213.196.195	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	60.213.151.23	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Chongqing	China	60.209.90.81	Chongqing	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	60.19.2.140	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Fushun	China	60.18.83.91	Liaoning	
AS4134 No.31,Jin-rong Street	Huangshan City	China	60.172.83.205	Anhui	
AS17676 Softbank BB Corp.	Kawasaki	Japan	60.126.66.201	Kanagawa	210-0835
AS17676 Softbank BB Corp.	Chofu	Japan	60.125.95.130	Tokyo	182-0025
AS17676 Softbank BB Corp.	Tokyo	Japan	60.124.75.99	Tokyo	190-0031
AS17676 Softbank BB Corp.	Sagamihara	Japan	60.121.98.97	Kanagawa	252-0231
AS17676 Softbank BB Corp.	Tokyo	Japan	60.121.161.145	Tokyo	190-0031
AS17676 Softbank BB Corp.	Tokyo	Japan	60.120.93.195	Tokyo	190-0031
AS17676 Softbank BB Corp.	Ichihara	Japan	60.112.196.213	Chiba	290-0015
AS17676 Softbank BB Corp.	Yokohama	Japan	60.104.113.161	Kanagawa	231-0005
AS17676 Softbank BB Corp.	Nishio	Japan	60.101.77.162	Aichi	444-0301
AS9829 National Internet Backbone	Alwar	India	59.90.111.28	Rajasthan	301001
AS4766 Korea Telecom	Seoul	Republic of Korea	59.9.16.121	Seoul	
AS9829 National Internet Backbone	Karaikal	India	59.89.247.161	Union Territory of Puducherry	609602
AS4766 Korea Telecom	Seoul	Republic of Korea	59.7.75.134	Seoul	
AS4134 No.31,Jin-rong Street	Fuding	China	59.58.16.101	Fujian	
AS4134 No.31,Jin-rong Street	Haikou	China	59.50.136.37	Hainan	
AS134762 CHINANET Sichuan province Chengdu MAN network	Dalian	China	59.46.137.180	Liaoning	

AS4134 No.31,Jin-rong Street	Guangzhou	China	59.35.162.64	Guangdong	
AS4766 Korea Telecom	Daegu	Republic of Korea	59.23.249.102	Daegu	
AS4134 No.31,Jin-rong Street	Wuhan	China	59.174.1.28	Hubei	
AS4134 No.31,Jin-rong Street	Wuhan	China	59.173.92.234	Hubei	
AS8100 QuadraNet, Inc	Guiyang (Baiyun Qu)	China	59.153.62.19	Guizhou	
AS4766 Korea Telecom	Seoul	Republic of Korea	59.14.134.11	Seoul	
AS17552 True Internet Co.,Ltd.	Bangkok	Thailand	58.9.73.21	Bangkok	10110
AS4739 Internode Pty Ltd	Darwin	Australia	58.7.47.60	Northern Territory	0800
AS4134 No.31,Jin-rong Street	Yantai	China	58.57.3.237	Shandong	
AS4134 No.31,Jin-rong Street	Guangzhou	China	58.54.182.102	Guangdong	
AS4134 No.31,Jin-rong Street	Wuhan	China	58.50.138.147	Hubei	
AS4134 No.31,Jin-rong Street	Tangshan	China	58.50.135.25	Jiangsu	
AS9318 SK Broadband Co Ltd	Incheon	Republic of Korea	58.236.98.48	Incheon	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	58.235.61.180	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	58.231.48.80	Seoul	
AS4134 No.31,Jin-rong Street	Shanghai	China	58.219.249.28	Shanghai	
AS10036 DLIVE	Seoul (Achasan-ro)	Republic of Korea	58.142.92.212	Seoul	
AS16509 Amazon.com, Inc.	Seattle	United States	54.192.204.210	Washington	98101
AS16509 Amazon.com, Inc.	Frankfurt am Main	Germany	52.58.162.110	Hesse	09039
AS16509 Amazon.com, Inc.	Seattle	United States	52.46.8.160	Washington	98109
AS16509 Amazon.com, Inc.	Dublin	Ireland	52.218.52.107	Leinster	D02
AS16276 OVH SAS	Roubaix	France	51.255.73.230	Nord-Pas-de-Calais	
AS16276 OVH SAS	Roubaix	France	51.255.225.75	Nord-Pas-de-Calais	
AS16276 OVH SAS	Lugo	Spain	51.255.120.204	Galicia	27004
AS46606 Unified Layer	Provo	United States	50.87.9.116	Utah	84606
AS30036 Mediacom Communications Corp	Frankford	United States	50.81.105.198	Delaware	19945
AS6327 Shaw Communications Inc.	Winnipeg	Canada	50.72.138.111	Manitoba	
AS5650 Frontier Communications of America, Inc.	Sun Prairie	United States	50.50.127.191	Wisconsin	53590

AS6181 Cincinnati Bell Telephone Company LLC	Cincinnati	United States	50.5.177.167	Ohio	45245
AS5650 Frontier Communications of America, Inc.	Rochester	United States	50.49.96.196	New York	14607
AS5650 Frontier Communications of America, Inc.	Middletown	United States	50.49.191.236	New York	10941
AS5650 Frontier Communications of America, Inc.	Gresham	United States	50.39.193.159	Oregon	97080
AS5650 Frontier Communications of America, Inc.	Beaverton	United States	50.38.116.116	Oregon	97007
AS5650 Frontier Communications of America, Inc.	Leola	United States	50.32.245.94	Pennsylvania	17540
AS32244 Liquid Web, L.L.C	Lansing	United States	50.28.49.171	Michigan	48917
AS19271 Peak 10	San Francisco	United States	50.28.208.18	California	94117
AS7922 Comcast Cable Communications, LLC	Jacksonville	United States	50.249.143.173	Florida	32206
AS7922 Comcast Cable Communications, LLC	Houston (Montrose)	United States	50.206.119.49	Texas	
AS18779 EGIHosting	San Jose	United States	50.118.178.109	California	95113
AS5650 Frontier Communications of America, Inc.	Muskegon	United States	50.107.88.11	Michigan	49442
AS5650 Frontier Communications of America, Inc.	Plainwell	United States	50.107.102.168	Michigan	49080
AS5650 Frontier Communications of America, Inc.	Campbellsport	United States	50.105.151.51	Wisconsin	53010
AS8369 Intersvyaz-2 JSC	Miass	Russia	5.79.158.227	Chelyabinsk	456300
AS9198 JSC Kazakhtelecom	Almaty	Kazakhstan	5.76.244.63	Almaty Qalasy	
AS12880 Information Technology Company (ITC)	Tehran	Iran	5.74.175.215	Ostan-e Tehran	
AS5607 Sky UK Limited	Barnsley	United Kingdom	5.70.156.202	England	S70
AS5607 Sky UK Limited	Stockton-on-Tees	United Kingdom	5.70.141.195	England	TS19
AS5607 Sky UK Limited	Leeds	United Kingdom	5.69.219.196	England	LS12
AS5607 Sky UK Limited	Nottingham	United Kingdom	5.67.151.58	England	NG7
AS5607 Sky UK Limited	Ealing	United Kingdom	5.67.13.142	England	W13

AS16223 Lanet Network Ltd	Belaya	Ukraine	5.58.205.26	Ternopil's'ka Oblast'	59346
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Athens	Greece	5.55.178.208	Attica	
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Athens	Greece	5.54.90.109	Attica	
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Athens	Greece	5.54.27.212	Attica	
AS9158 Telenor A/S	Copenhagen	Denmark	5.33.0.1	Capital Region	
AS15802 Emirates Integrated Telecommunications Company PJSC (EITC-DU)	Dubai	United Arab Emirates	5.30.178.133	Dubai	
AS9198 JSC Kazakhtelecom	Almaty	Kazakhstan	5.251.155.95	Almaty Qalasy	
AS9123 TimeWeb Ltd.	Saint Petersburg	Russia	5.23.49.245	St.-Petersburg	
AS43578 Mba Datacenters S.L.	Madrid	Spain	5.226.168.237	Madrid	28001
AS8708 RCS & RDS	Bucharest	Romania	5.2.219.150	Bucuresti	050019
AS57293 AG Telecom LTD.	Baku	Azerbaijan	5.197.209.215	Baku City	
AS57293 AG Telecom LTD.	Baku	Azerbaijan	5.197.111.15	Baku City	
AS31027 Nianet A/S	Copenhagen	Denmark	5.179.91.133	Capital Region	1513
AS28890 INSYS LLC	Yekaterinburg	Russia	5.172.13.42	Sverdlovskaya Oblast'	620007
AS50512 JSC ER-Telecom Holding	Barnaul	Russia	5.166.75.152	Altai Krai	656000
AS57026 JSC ER-Telecom Holding	Cheboksary	Russia	5.165.152.161	Chuvashia	428022
AS56377 JSC ER-Telecom Holding	Magnitogorsk	Russia	5.164.63.12	Chelyabinsk	455004
AS35805 JSC Silknet	Tbilisi	Georgia	5.152.49.14	K'alak'i T'bilisi	
AS42689 Cablecom Networking Limited	Manchester	United Kingdom	5.151.193.248	England	M1
AS8708 RCS & RDS	Sibiu	Romania	5.15.125.186	Judetul Sibiu	550075
AS12389 PJSC Rostelecom	Vladivostok	Russia	5.143.44.153	Primorskiy Kray	690037
AS197595 Obenetwork AB	Dunker	Sweden	5.133.197.73	Södermanland	
AS58321 Oxylion S. A.	Olesnica	Poland	5.104.255.158	Lower Silesia	56-400
AS4134 No.31,Jin-rong Street	Xinpu	China	49.88.107.180	Jiangsu	
AS4134 No.31,Jin-rong Street	Nanjing	China	49.69.48.200	Jiangsu	

AS4134 No.31,Jin-rong Street	Nanjing	China	49.68.207.30	Jiangsu	
AS4134 No.31,Jin-rong Street	Nanjing	China	49.65.164.208	Jiangsu	
AS131269 ACTFIBERNET Pvt Ltd	Vijayawada	India	49.207.251.123	Andhra Pradesh	520001
AS45102 Alibaba (China) Technology Co., Ltd.	Frankfurt am Main	Germany	47.91.95.64	Hesse	60313
AS45102 Alibaba (China) Technology Co., Ltd.	Hong Kong	Hong Kong	47.90.46.158	Central and Western	
AS20115 Charter Communications	Duluth	United States	47.39.212.43	Georgia	30096
AS5650 Frontier Communications of America, Inc.	Riverview	United States	47.196.21.90	Florida	33578
AS5650 Frontier Communications of America, Inc.	Wylie	United States	47.186.72.192	Texas	75098
AS5650 Frontier Communications of America, Inc.	Keller	United States	47.185.36.211	Texas	76244
AS5650 Frontier Communications of America, Inc.	Walnut	United States	47.156.138.197	California	91789
AS5650 Frontier Communications of America, Inc.	Long Beach	United States	47.149.214.68	California	90815
AS5650 Frontier Communications of America, Inc.	Morgan Hill	United States	47.143.99.170	California	95037
AS5650 Frontier Communications of America, Inc.	Victorville	United States	47.137.48.254	California	92392
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	47.100.56.17	Zhejiang	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	47.100.15.159	Zhejiang	
AS3320 Deutsche Telekom AG	Albstadt	Germany	46.95.94.47	Baden-Württemberg Region	72461
AS3320 Deutsche Telekom AG	Borken	Germany	46.92.16.239	North Rhine-Westphalia	46325
AS2119 Telenor Norge AS	Jessheim	Norway	46.9.251.95	Akershus	2050
AS3320 Deutsche Telekom AG	Winsen	Germany	46.84.210.9	Lower Saxony	21423
AS3320 Deutsche Telekom AG	Vallendar	Germany	46.80.65.192	Rheinland-Pfalz	56179
AS12668 LLC KomTehCentr	Yekaterinburg	Russia	46.48.125.254	Sverdlovskaya Oblast'	620019

AS41897 Sat-Trakt D.O.O.	Becej	Serbia	46.40.49.154	Vojvodina	
AS24940 Hetzner Online GmbH	Falkenstein	Germany	46.4.120.152	Saxony	
AS34977 Procono S.A.	Málaga	Spain	46.37.76.42	Andalusia	29001
AS31272 WildPark Co	Mykolayiv	Ukraine	46.33.252.69	Mykolayivs'ka Oblast'	54003
AS44592 SkyLink Data Center BV	Amsterdam	Netherlands	46.251.231.234	North Holland	
AS12824 home.pl S.A.	Szczecin	Poland	46.242.157.87	West Pomeranian Voivodeship	
AS35141 Mobiltel Ead	Sofia	Bulgaria	46.238.44.186	Sofia-Capital	1000
AS29562 Kabel BW	Ravensburg	Germany	46.223.99.118	Baden-Württemberg Region	88213
AS29562 Kabel BW	Bad Boll	Germany	46.223.223.232	Baden-Württemberg Region	73087
AS29562 Kabel BW	Schutterwald	Germany	46.223.185.42	Baden-Württemberg Region	77746
AS6821 Makedonski Telekom AD-Skopje	Tetovo	Macedonia	46.217.24.180	Tetovo	1200
AS3265 Xs4all Internet BV	Amsterdam (Nieuwmarkt en Lastage)	Netherlands	46.21.238.110	North Holland	
AS8386 Vodafone Net İletişim Hizmetleri Anonim Şirketi	Adana	Turkey	46.2.33.180	Adana	01150
AS8881 I&I Versatel Deutschland GmbH	Dusseldorf	Germany	46.189.31.186	North Rhine-Westphalia	40211
AS35156 Blackboard International B.V.	Amsterdam	Netherlands	46.183.243.53	North Holland	
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Athens	Greece	46.177.191.46	Attica	
AS5617 Orange Polska Spolka Akcyjna	Warsaw	Poland	46.170.156.213	Mazovia	00-202
AS12389 PJSC Rostelecom	Kanevskaya	Russia	46.158.30.204	Krasnodarskiy Kray	353730
AS197070 MTS PJSC	Volzhsk	Russia	46.148.254.163	Respublika Mariy-El	425000
AS42116 JSC ER-Telecom Holding	Bibayevo-Chelny	Russia	46.147.87.231	Tatarstan	422189
AS42116 JSC ER-Telecom Holding	Bibayevo-Chelny	Russia	46.147.225.88	Tatarstan	422189
AS12430 Vodafone Spain	Alcorcón	Spain	46.136.191.121	Madrid	28921
AS6830 Liberty Global Operations B.V.	Schlieren	Switzerland	46.126.36.130	Zurich	8952
AS15895 Kyivstar PJSC	Lutsk	Ukraine	46.118.150.14	Volyns'ka Oblast'	43023
AS12578 SIA Lattelecom	Riga	Latvia	46.109.107.42	Riga	
AS16276 OVH SAS	Saint-Michel-sur-Orge	France	46.105.123.65	Île-de-France	91240
AS200130 Digital Ocean, Inc.	Frankfurt am Main	Germany	46.101.103.254	Hesse	09039

AS8866 Vivacom	Varna	Bulgaria	46.10.238.113	Varna	9000
AS8866 Vivacom	Varna	Bulgaria	46.10.12.185	Varna	9000
AS34533 JSC ER-Telecom Holding	Samara	Russia	46.0.225.96	Samarskaya Oblast'	404146
AS132933 CharotarTelelink Pvt Ltd	Ahmedabad	India	45.64.188.2	Gujarat	
AS19551 Incapsula Inc	Redwood City	United States	45.60.87.84	California	94065
AS55286 B2 Net Solutions Inc.	Buffalo	United States	45.57.183.79	New York	14202
AS20001 Time Warner Cable Internet LLC	Rialto	United States	45.51.155.233	California	92376
AS11351 Time Warner Cable Internet LLC	Delmar	United States	45.47.181.27	New York	12054
AS11426 Time Warner Cable Internet LLC	Burlington	United States	45.36.108.240	North Carolina	27215
AS40676 Psychz Networks	Walnut	United States	45.34.233.35	California	91789
AS24863 LINKdotNET	Alexandria	Egypt	45.242.108.244	Alexandria	
AS267152 jose charles rocha braga-me	Montevideo	Uruguay	45.230.115.87	Departamento de Montevideo	
AS266914 Larynet Telecom	Mangabeira	Brazil	45.224.235.184	Bahia	
AS37353 MacroLAN	Johannesburg	South Africa	45.204.92.25	Gauteng	2000
AS37353 MacroLAN	Johannesburg	South Africa	45.203.102.180	Gauteng	2000
AS24554 Fivenetwork Solution India Pvt Ltd Internet	Pune	India	45.116.47.54	Maharashtra	411014
AS136800 ICIDC NETWORK	Fengtai	China	45.114.106.235	Beijing	
AS4134 No.31,Jin-rong Street	Tianshui	China	42.89.61.205	Guangdong	
AS4837 CHINA UNICOM China169 Backbone	Dalian	China	42.84.152.2	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	42.54.8.28	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	42.54.136.121	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	42.5.80.48	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Puyang Chengguanzhen	China	42.238.113.23	Henan	
AS4837 CHINA UNICOM China169 Backbone	Anyang	China	42.233.154.120	Henan	
AS4837 CHINA UNICOM China169 Backbone	Shenyang	China	42.178.51.28	Liaoning	
AS9824 Jupiter Telecommunication Co. Ltd	Hadano	Japan	42.144.93.176	Kanagawa	257-0051
AS10010 TOKAI Communications Corporation	Shizuoka	Japan	42.125.22.135	Shizuoka	420-0839

AS37671 GLOBALNET-AS	Tunis	Tunisia	41.225.184.56	Gouvernorat de Tunis	
AS15808 ACCESSKENYA GROUP LTD is an ISP serving	Nairobi	Kenya	41.215.19.121	Nairobi Province	
AS37084 Simbanet (T) Ltd	Dar es Salaam	Tanzania	41.188.175.129	Dar es Salaam Region	
AS29091 IPNXng	Lagos	Nigeria	41.184.237.48	Lagos	
AS36937 Neotel Pty Ltd	Cape Town	South Africa	41.164.49.129	Western Cape	7100
AS36903 MT-MPLS	Agadir	Morocco	41.143.58.51	Souss-Massa	
AS36903 MT-MPLS	Nador	Morocco	41.143.141.195	Oriental	
AS6713 Itissalat Al-MAGHRIB	Rabat	Morocco	41.140.217.122	Rabat-Sale-Kenitra	
AS7029 Windstream Communications LLC	New York	United States	40.137.147.114	New York	10028
AS7029 Windstream Communications LLC	Lexington	United States	40.136.40.229	Kentucky	40503
AS3356 Level 3 Communications, Inc.	Budapest	Hungary	4.69.177.227	Budapest fovaros	
AS4837 CHINA UNICOM China169 Backbone	Jimo	China	39.88.164.215	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Tai'an	China	39.85.119.250	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	39.82.33.210	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	39.78.175.42	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	39.77.178.149	Shandong	
AS45595 Pakistan Telecom Company Limited	Islamabad	Pakistan	39.56.16.82	Islamabad	21061
AS56041 China Mobile communications corporation	Beijing (Xicheng Qu)	China	39.172.194.32	Beijing	
AS9318 SK Broadband Co Ltd	Seoul (Toegy-e-ro)	Republic of Korea	39.116.54.215	Seoul	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	39.108.177.208	Zhejiang	
AS174 Cogent Communications	Herndon	United States	38.95.179.105	Virginia	
AS174 Cogent Communications	San Francisco	United States	38.88.216.177	California	94103
AS23028 Team Cymru Inc.	Upper Marlboro (Greater Upper Marlboro)	United States	38.229.182.154	Maryland	
AS395111 KVHOSTING.COM LLC	East Orange	United States	38.145.112.249	New Jersey	07019
AS12668 LLC KomTehCentr	Nizhny Tagil	Russia	37.98.252.73	Sverdlovskaya Oblast'	622049

AS8399 Sewan Communications S.A.S.	Paris	France	37.97.90.17	Île-de-France	75001
AS28929 ASDASD srl a socio unico	Spresiano	Italy	37.77.211.50	Veneto	31027
AS20860 iomart Cloud Services Limited.	Maidenhead	United Kingdom	37.247.117.59	England	SL6
AS42298 Ooredoo Q.S.C.	Doha	Qatar	37.211.151.254	Baladiyat ad Dawhah	
AS42298 Ooredoo Q.S.C.	Doha	Qatar	37.211.145.73	Baladiyat ad Dawhah	
AS6876 TeNeT Scientific Production Enterprise LLC	Odesa	Ukraine	37.203.3.145	Odessa	65005
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Matosinhos Municipality	Portugal	37.189.34.227	Porto	4450-000
AS16276 OVH SAS	Paris	France	37.187.154.138	Île-de-France	75001
AS42772 Velcom UE	Minsk	Belarus	37.17.23.129	Minsk City	220002
AS8402 VimpelCom	Kursk	Russia	37.146.101.184	Kurskaya Oblast'	305000
AS200130 Digital Ocean, Inc.	Amsterdam	Netherlands	37.139.15.169	North Holland	1105
AS44725 Sinam LLC	Baku	Azerbaijan	37.114.189.98	Baku City	
AS51035 JSC ER-Telecom Holding	Ufa	Russia	37.112.21.111	Bashkortostan	
AS12715 Orange Espagne S.A.U.	Madrid	Spain	37.11.194.125	Madrid	28011
AS34456 Rial Com JSC	Serpukhov	Russia	37.1.36.1	Moscow Oblast	142207
AS34456 Rial Com JSC	Domodedovo	Russia	37.1.26.70	Moscow Oblast	140162
AS7713 PT Telekomunikasi Indonesia	Rewasidori	Indonesia	36.83.33.212	Jakarta	
AS17974 PT Telekomunikasi Indonesia	Batam	Indonesia	36.78.243.225	Riau Islands	
AS17974 PT Telekomunikasi Indonesia	Semarang	Indonesia	36.73.142.45	Central Java	
AS38623 ISP/IXP IN CAMBODIA WITH THE BEST SERVICE IN THERE.	Phnom Penh	Cambodia	36.37.255.61	Phnom Penh	
AS17962 ShenZhen Topway Video Communication Co. Ltd	Shenzhen	China	36.36.49.78	Guangdong	
AS4837 CHINA UNICOM China169 Backbone	Huaibei	China	36.34.36.44	Anhui	
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing (Xicheng Qu)	China	36.187.105.140	Beijing	
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing (Xicheng Qu)	China	36.182.192.184	Beijing	
AS4134 No.31,Jin-rong Street	Hangzhou	China	36.107.182.146	Zhejiang	
AS4134 No.31,Jin-rong Street	Haikou	China	36.101.128.144	Hainan	

AS15169 Google LLC	Mountain View	United States	35.227.232.48	California	94043
AS15169 Google LLC	Mountain View	United States	35.227.194.176	California	94043
AS15169 Google LLC	Mountain View	United States	35.204.44.156	California	94043
AS15169 Google LLC	Mountain View	United States	35.201.81.166	California	94043
AS15169 Google LLC	Mountain View	United States	35.199.79.155	California	94043
AS15169 Google LLC	Mountain View	United States	35.197.242.222	California	94043
AS15169 Google LLC	Mountain View	United States	35.190.16.38	California	94043
AS15169 Google LLC	Mountain View	United States	35.185.206.140	California	94043
AS16509 Amazon.com, Inc.	Dublin	Ireland	34.249.166.69	Leinster	D02
AS14618 Amazon.com, Inc.	Ashburn	United States	34.229.83.34	Virginia	20149
AS2856 British Telecommunications PLC	Doncaster	United Kingdom	31.51.95.55	England	DN2
AS5483 Magyar Telekom plc.	Gyula	Hungary	31.46.62.36	Bekes	5700
AS56476 City-Line Ltd.	Konakovo	Russia	31.42.195.91	Tverskaya Oblast'	171252
AS8647 Olga-tv LLC	Dnipro	Ukraine	31.42.120.104	Dnipro	49020
AS12389 PJSC Rostelecom	Rostov-on-Don	Russia	31.23.218.21	Rostov	344004
AS15704 Xtra Telecom S.A.	Dos Hermanas	Spain	31.222.86.27	Andalusia	41089
AS31615 T-mobile Netherlands bv.	The Hague	Netherlands	31.20.30.206	South Holland	
AS3269 Telecom Italia	Casalvieri	Italy	31.195.41.175	Latium	03034
AS31334 Vodafone Kabel Deutschland GmbH	Buchholz in der Nordheide	Germany	31.19.113.203	Lower Saxony	21244
AS31334 Vodafone Kabel Deutschland GmbH	Hamburg	Germany	31.18.115.80	Hamburg	22393
AS198537 KAMNET Kamil Turon	Gromadka	Poland	31.179.243.42	Lower Silesia	59-706
AS6830 Liberty Global Operations B.V.	Warsaw	Poland	31.179.183.241	Mazovia	00-844
AS56910 Lamda Hellix SA	Athens	Greece	31.177.62.60	Attica	
AS35298 PJSC MegaFon	Frolovo	Russia	31.173.186.123	Volgogradskaya Oblast'	403540
AS199668 Datalp SAS	Meylan	France	31.172.162.51	Rhône-Alpes	
AS31334 Vodafone Kabel Deutschland GmbH	Greifswald	Germany	31.17.19.7	Mecklenburg-Vorpommern	17489
AS31334 Vodafone Kabel Deutschland GmbH	Hamburg	Germany	31.16.53.126	Hamburg	21079
AS8386 Vodafone Net İletişim Hizmetleri Anonim Şirketi	Izmir	Turkey	31.155.194.37	Izmir	35250
AS9145 EWE-Tel GmbH	Bremervoerde	Germany	31.150.97.84	Lower Saxony	27432
AS44546 ALFA TELECOM s.r.o.	Amsterdam	Netherlands	31.148.130.121	North Holland	
AS56983 SWIDMAN S.C. Mariusz Bzowski, Dariusz Drelich	Trawniki	Poland	31.135.18.69	Lublin	21-044

AS50130 FOP Samoilenko Igor Olegovich	Kharkiv	Ukraine	31.129.254.133	Kharkivs'ka Oblast'	61036
AS48738 Elvis Apanet ZAO	Apatity	Russia	31.128.202.159	Murmansk	184209
AS7552 Viettel Group	Buon Ma Thuot	Vietnam	27.79.72.119	Tinh GJlak Lak	
AS45117 Ishan's Network	Jalalpur	India	27.54.190.172	Gujarat	
AS23584 PUSAN CABLE TV SYSTEM CO., LTD.	Busan (Oncheon 1(il)-dong)	Republic of Korea	27.35.151.92	Busan	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	27.233.125.75	Gyeonggi-do	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	27.221.35.245	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Linyi	China	27.218.238.200	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Qingdao	China	27.210.209.170	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	27.209.251.4	Shandong	
AS4134 No.31,Jin-rong Street	Zunhua	China	27.190.223.96	Hebei	
AS4134 No.31,Jin-rong Street	Wuhan	China	27.16.104.72	Hubei	
AS17552 True Internet Co.,Ltd.	Bangkok	Thailand	27.145.90.67	Bangkok	10400
AS9943 KangNam CableTV	Seoul	Republic of Korea	27.1.171.210	Seoul	
AS7922 Comcast Cable Communications, LLC	Denver	United States	24.9.96.209	Colorado	80219
AS7922 Comcast Cable Communications, LLC	Golden	United States	24.8.112.211	Colorado	80401
AS11290 Cogeco Cable Holdings Inc	Magog	Canada	24.54.27.162	Quebec	J1X
AS40788 Start Communications	Burlington	Canada	24.50.165.244	Ontario	L7M
AS7922 Comcast Cable Communications, LLC	Monterey	United States	24.5.119.184	California	93940
AS6128 Cablevision Systems Corp.	Asbury Park	United States	24.46.77.226	New Jersey	07712
AS11351 Time Warner Cable Internet LLC	Albany	United States	24.29.54.95	New York	12206
AS10796 Time Warner Cable Internet LLC	Xenia	United States	24.27.176.254	Ohio	45385
AS22773 Cox Communications Inc.	Topeka	United States	24.249.117.158	Kansas	66611
AS20115 Charter Communications	Bay City	United States	24.231.216.105	Michigan	48706
AS11427 Time Warner Cable Internet LLC	Beaumont	United States	24.227.181.145	Texas	77705

AS27264 Continuum	Davidson	United States	24.224.89.147	North Carolina	28036
AS7922 Comcast Cable Communications, LLC	Brockton	United States	24.218.135.36	Massachusetts	02301
AS10796 Time Warner Cable Internet LLC	Kimberly	United States	24.208.45.113	Wisconsin	54136
AS10796 Time Warner Cable Internet LLC	Blacklick	United States	24.208.142.230	Ohio	43004
AS20115 Charter Communications	Madison	United States	24.197.84.189	Alabama	35758
AS11351 Time Warner Cable Internet LLC	Rensselaer	United States	24.194.167.205	New York	12144
AS20115 Charter Communications	Barbeau	United States	24.180.206.141	Michigan	49710
AS7922 Comcast Cable Communications, LLC	Olympia	United States	24.18.122.99	Washington	98512
AS10796 Time Warner Cable Internet LLC	Erie	United States	24.165.139.140	Pennsylvania	16502
AS33363 BRIGHT HOUSE NETWORKS, LLC	Lakeland	United States	24.164.36.32	Florida	33813
AS11427 Time Warner Cable Internet LLC	Copperas Cove	United States	24.162.118.54	Texas	76522
AS7922 Comcast Cable Communications, LLC	Spokane	United States	24.16.120.114	Washington	99208
AS27364 Armstrong Cable Services	Evans City	United States	24.154.255.62	Pennsylvania	16066
AS7922 Comcast Cable Communications, LLC	Somersworth	United States	24.147.52.16	New Hampshire	03878
AS7922 Comcast Cable Communications, LLC	East Hartford	United States	24.147.119.50	Connecticut	06108
AS31334 Vodafone Kabel Deutschland GmbH	Bad Abbach	Germany	24.134.10.21	Bavaria	93077
AS7922 Comcast Cable Communications, LLC	Howell	United States	24.128.210.99	Michigan	48843
AS7922 Comcast Cable Communications, LLC	Inver Grove Heights	United States	24.118.148.165	Minnesota	55076
AS12271 Time Warner Cable Internet LLC	New York	United States	24.103.65.181	New York	10009
AS12271 Time Warner Cable Internet LLC	Sunnyside	United States	24.102.81.133	New York	11104
AS7922 Comcast Cable Communications, LLC	Hobart	United States	24.1.156.207	Indiana	46342
AS7922 Comcast Cable Communications, LLC	Plainfield	United States	24.0.30.231	New Jersey	07060
AS36352 ColoCrossing	Atlanta	United States	23.94.51.98	Georgia	30301
AS19531 Nodes Direct	Jacksonville	United States	23.92.91.193	Florida	32202
AS3257 GTT Communications Inc.	Cambridge	United States	23.9.42.242	Massachusetts	02142

AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.9.176.91	Massachusetts	02142
AS3257 GTT Communications Inc.	Cambridge	United States	23.73.225.18	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.66.165.53	Massachusetts	02142
AS1299 Telia Company AB	Amsterdam	Netherlands	23.64.218.21	North Holland	1091
AS1299 Telia Company AB	Amsterdam	Netherlands	23.64.215.207	North Holland	1091
AS9829 National Internet Backbone	Cambridge	United States	23.6.212.41	Massachusetts	02142
AS20940 Akamai International B.V.	Amsterdam	Netherlands	23.59.98.214	North Holland	1091
AS20940 Akamai International B.V.	Amsterdam	Netherlands	23.59.103.160	North Holland	1091
AS20940 Akamai International B.V.	Cambridge	United States	23.58.73.140	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.54.68.207	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Minneapolis	United States	23.54.34.160	Minnesota	
AS6762 TELECOM ITALIA SPARKLE S.p.A.	Cambridge	United States	23.5.114.189	Massachusetts	02142
AS9329 Sri Lanka Telecom Internet	Stoneham	United States	23.49.164.158	Massachusetts	02180
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.46.152.41	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.45.158.70	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	23.44.117.82	North Holland	1091
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	23.43.75.161	North Holland	1091
AS16625 Akamai Technologies, Inc.	Philadelphia	United States	23.40.248.208	Pennsylvania	19107
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.4.5.82	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	23.38.83.244	North Holland	1091
AS20940 Akamai International B.V.	Cambridge	United States	23.37.137.20	Massachusetts	02142
AS20940 Akamai International B.V.	Cambridge	United States	23.33.113.130	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.32.159.176	Massachusetts	02142
AS12083 WideOpenWest Finance LLC	Cleveland	United States	23.28.152.175	Ohio	44120
AS46261 QuickPacket, LLC	Newark	United States	23.251.231.45	Delaware	19716

AS20001 Time Warner Cable Internet LLC	Moreno Valley	United States	23.242.121.248	California	92553
AS54113 Fastly	San Francisco	United States	23.235.33.226	California	94107
AS33330 CloudRadium L.L.C	Los Angeles	United States	23.224.30.185	California	90014
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.222.196.57	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge (Mit)	United States	23.215.70.53	Massachusetts	
AS20940 Akamai International B.V.	Amsterdam	Netherlands	23.214.131.55	North Holland	1091
AS20940 Akamai International B.V.	Cambridge	United States	23.213.225.88	Massachusetts	02142
AS20940 Akamai International B.V.	Amsterdam	Netherlands	23.212.231.245	North Holland	1091
AS8151 Uninet S.A. de C.V.	Laurel	United States	23.211.126.156	Maryland	20723
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	23.202.248.115	North Holland	1091
AS20940 Akamai International B.V.	Cambridge	United States	23.196.188.251	Massachusetts	02142
AS28573 CLARO S.A.	Cambridge	United States	23.195.180.142	Massachusetts	02142
AS7843 Time Warner Cable Internet LLC	Cambridge	United States	23.15.92.91	Massachusetts	02142
AS20940 Akamai International B.V.	Beverly Hills	United States	23.0.62.81	California	90209
AS16625 Akamai Technologies, Inc.	Cambridge	United States	23.0.19.144	Massachusetts	02142
AS24444 Shandong Mobile Communication Company Limited	Zaozhuang	China	223.98.66.149	Shandong	
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing (Xicheng Qu)	China	223.84.44.221	Beijing	
AS38197 Sun Network (Hong Kong) Limited - HongKong Backbone	Ha Kwai Chung	Hong Kong	223.26.61.55		
AS4134 No.31,Jin-rong Street	Hefei	China	223.246.137.48	Anhui	
AS4134 No.31,Jin-rong Street	Chanshan	China	223.243.135.145	Jiangsu	
AS4134 No.31,Jin-rong Street	Shanghai	China	223.240.131.115	Shanghai	
AS24560 Bharti Airtel Ltd., Telemedia Services	Hyderabad	India	223.230.4.183	Telangana	500036
AS4760 PCCW Limited	City of Victoria	Hong Kong	223.197.160.151	Central and Western District	
AS24560 Bharti Airtel Ltd., Telemedia Services	Noida	India	223.190.75.175	Uttar Pradesh	201301

AS17853 LGTELECOM	Seoul (World cup buk-ro)	Republic of Korea	223.175.30.178	Seoul	
AS4134 No.31,Jin-rong Street	Shenzhen	China	223.155.181.100	Guangdong	
AS4134 No.31,Jin-rong Street	Changsha	China	223.153.38.61	Hunan	
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing (Xicheng Qu)	China	223.115.72.67	Beijing	
AS4134 No.31,Jin-rong Street	Nanjing	China	222.94.109.114	Jiangsu	
AS4134 No.31,Jin-rong Street	Yingchuan	China	222.89.184.127	Henan	
AS4134 No.31,Jin-rong Street	Xiamen	China	222.77.114.119	Fujian	
AS45899 VNPT Corp	Hanoi	Vietnam	222.252.49.253	Thanh Pho Ha Noi	
AS4134 No.31,Jin-rong Street	Changsha	China	222.244.190.23	Hunan	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	222.239.165.251	Seoul	
AS4134 No.31,Jin-rong Street	Kunming	China	222.220.134.72	Yunnan	
AS4134 No.31,Jin-rong Street	Nanjing	China	222.184.7.33	Jiangsu	
AS4808 China Unicom Beijing Province Network	Beijing	China	222.131.190.125	Beijing	
AS4766 Korea Telecom	Daegu	Republic of Korea	222.103.158.117	Daegu	
AS4766 Korea Telecom	Seoul	Republic of Korea	222.100.164.220	Seoul	
AS17676 Softbank BB Corp.	Hitachi	Japan	221.25.235.1	Ibaraki	317-0051
AS4837 CHINA UNICOM China169 Backbone	Kunming	China	221.213.38.100	Yunnan	
AS4837 CHINA UNICOM China169 Backbone	Dalian	China	221.201.233.6	Liaoning	
AS4766 Korea Telecom	Ulsan	Republic of Korea	221.152.13.193	Ulsan	
AS4766 Korea Telecom	Seoul	Republic of Korea	220.88.124.225	Seoul	
AS4766 Korea Telecom	Daejeon	Republic of Korea	220.82.26.207	Daejeon	
AS7545 TPG Telecom Limited	Melbourne	Australia	220.245.195.130	Victoria	3000
AS4837 CHINA UNICOM China169 Backbone	Beijing	China	220.201.173.41	Beijing Shi	
AS4134 No.31,Jin-rong Street	Haikou	China	220.174.108.140	Hainan	
AS4134 No.31,Jin-rong Street	Haikou	China	220.174.0.162	Hainan	

AS4134 No.31,Jin-rong Street	Nanning	China	220.173.39.222	Guangxi	
AS4134 No.31,Jin-rong Street	Ürümqi	China	220.171.181.241	Xinjiang	
AS4766 Korea Telecom	Jeonju	Republic of Korea	220.124.110.226	Jeollabuk-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	220.117.173.24	Seoul	
AS9506 Singtel Fibre Broadband	Singapore	Singapore	219.75.103.64	Central Singapore Community Development Council	
AS9318 SK Broadband Co Ltd	Saha	Republic of Korea	219.251.29.210	Jeollanam-do	
AS4134 No.31,Jin-rong Street	Changzhou	China	218.93.136.216	Jiangsu	
AS4134 No.31,Jin-rong Street	Changsha	China	218.76.48.65	Hunan	
AS4134 No.31,Jin-rong Street	Chenzhou	China	218.76.154.210	Hunan	
AS4134 No.31,Jin-rong Street	Quanzhou	China	218.67.38.144	Fujian	
AS4713 NTT Communications Corporation	Yokohama	Japan	218.43.96.198	Kanagawa	231-0005
AS4837 CHINA UNICOM China169 Backbone	Taoshan	China	218.29.128.157	Zhejiang	
AS23724 IDC, China Telecommunications Corporation	Shanghai	China	218.244.101.45	Shanghai	
AS9318 SK Broadband Co Ltd	Seongnam-si	Republic of Korea	218.238.34.28	Gyeonggi-do	
AS2527 So-net Entertainment Corporation	Tokyo	Japan	218.221.51.58	Tokyo	190-0031
AS23563 Tbroad Suwon Broadcasting Corporation	Seoul	Republic of Korea	218.209.208.142	Seoul	
AS24444 Shandong Mobile Communication Company Limited	Tai'an	China	218.201.179.142	Shandong	
AS4766 Korea Telecom	Gwangju	Republic of Korea	218.157.23.1	Gwangju	
AS4766 Korea Telecom	Daegu	Republic of Korea	218.150.95.248	Daegu	
AS4788 TM Net, Internet Service Provider	Nusajaya	Malaysia	218.111.131.197	Johor	
AS3320 Deutsche Telekom AG	Bad Schmiedeberg	Germany	217.80.23.195	Saxony-Anhalt	06905
AS5394 UNIDATA S.p.A.	Giussano	Italy	217.72.102.3	Lombardy	20833
AS3320 Deutsche Telekom AG	Thale	Germany	217.5.210.65	Saxony-Anhalt	

AS3320 Deutsche Telekom AG	Munich	Germany	217.248.89.129	Bavaria	80796
AS3320 Deutsche Telekom AG	Donzdorf	Germany	217.248.153.23	Baden-Württemberg Region	73072
AS3320 Deutsche Telekom AG	Saalfeld	Germany	217.245.222.40	Thuringia	07318
AS3320 Deutsche Telekom AG	Stuttgart	Germany	217.239.88.125	Baden-Württemberg Region	
AS3320 Deutsche Telekom AG	Uhldingen-Muhlhofen	Germany	217.239.23.60	Baden-Württemberg Region	88690
AS3320 Deutsche Telekom AG	Bayreuth	Germany	217.238.30.45	Bavaria	95448
AS3320 Deutsche Telekom AG	Baden-Baden	Germany	217.231.42.197	Baden-Württemberg Region	76532
AS3320 Deutsche Telekom AG	Mainz	Germany	217.224.167.181	Rheinland-Pfalz	55116
AS20910 SIA Baltcom	Riga	Latvia	217.199.106.185	Riga	
AS16276 OVH SAS	Roubaix	France	217.182.87.165	Nord-Pas-de-Calais	
AS5416 Batelco	Manama	Bahrain	217.17.232.15	Manama	
AS24852 UAB INIT Corporation	Visaginas	Republic of Lithuania	217.147.45.64	Utena	31001
AS20665 Varna Net Ltd.	Varna	Bulgaria	217.145.85.209	Varna	9000
AS16316 TMT GmbH & Co. KG	Bayreuth	Germany	217.145.101.226	Bavaria	95448
AS7859 pair Networks	Pittsburgh	United States	216.92.233.131	Pennsylvania	15203
AS7859 pair Networks	Pittsburgh	United States	216.92.232.79	Pennsylvania	15203
AS14265 TPx Communications	San Clemente	United States	216.70.152.97	California	92672
	Omaha	United States	216.66.212.144	Nebraska	68114
AS6939 Hurricane Electric, Inc.	San Francisco (Pacific Heights)	United States	216.252.162.117	California	
AS6939 Hurricane Electric, Inc.	Redwood Valley	United States	216.218.184.115	California	95470
AS7106 Com Net, Inc.	Fort Jennings	United States	216.201.2.157	Ohio	45844
AS12021 Rogers Communications Canada Inc.	Hamilton	Canada	216.185.70.97	Ontario	L9C
AS209 Qwest Communications Company, LLC	Seattle	United States	216.160.67.154	Washington	98106
AS8001 Net Access Corporation	Seymour	United States	216.118.103.213	Connecticut	06483
AS12337 noris network AG	Schweinfurt	Germany	213.95.241.148	Bavaria	97422
AS5089 Virgin Media Limited	Dudley	United Kingdom	213.81.69.129	England	DY1
AS12552 IP-Only Networks AB	Piteå	Sweden	213.80.44.15	Norrbottn	941 20

AS12715 Orange Espagne S.A.U.	Barcelona	Spain	213.76.213.50	Catalonia	08028
AS34984 Tellcom Iletisim Hizmetleri A.s.	Istanbul	Turkey	213.74.25.177	Istanbul	
AS6866 Cyprus Telecommunications Authority	Nicosia	Cyprus	213.7.48.58	Lefkosia	
AS5432 Proximus NV	Brussels	Belgium	213.49.231.107	Brussels Capital	1060
AS5432 Proximus NV	Brussels	Belgium	213.49.144.10	Brussels Capital	1090
AS6830 Liberty Global Operations B.V.	Vienna	Austria	213.47.39.102	Vienna	1190
AS16276 OVH SAS	Milan	Italy	213.32.104.137	Lombardy	
AS12978 Dogan Tv Digital Platform Isletmeciligi A.s	Istanbul	Turkey	213.243.38.201	Istanbul	
AS12414 Solcon Internetdiensten B.V.	Uddel	Netherlands	213.233.211.128	Provincie Gelderland	3888
AS8285 VERSIA Ltd	Riga	Latvia	213.21.233.43	Riga	
AS3303 Swisscom (Switzerland) Ltd	Rothenburg	Switzerland	213.200.218.213	Lucerne	6023
AS6830 Liberty Global Operations B.V.	Zurich (Kreis 5)	Switzerland	213.193.125.166	Zurich	
AS28851 Fortech s.r.o.	Vendoli	Czechia	213.19.26.18	Pardubicky kraj	569 14
AS34984 Tellcom Iletisim Hizmetleri A.s.	Kartal	Turkey	213.14.197.151	Istanbul	
AS42926 Radore Veri Merkezi Hizmetleri A.S.	Istanbul	Turkey	213.128.73.205	Istanbul	
AS5089 Virgin Media Limited	Stone	United Kingdom	213.104.122.178	England	ST15
AS47447 23media GmbH	Münster	Germany	212.83.50.56	North Rhine-Westphalia	
AS12668 LLC KomTehCentr	Yekaterinburg	Russia	212.49.97.78	Sverdlovskaya Oblast'	620019
AS8732 OJSC Comcor	Moscow	Russia	212.45.26.10	Moscow	127410
AS3303 Swisscom (Switzerland) Ltd	Zurich	Switzerland	212.41.215.194	Zurich	8037
AS12322 Free SAS	Paris	France	212.27.49.153	Île-de-France	
AS1257 TELE2	Helsingborg	Sweden	212.247.78.98	Skåne	
AS8632 Luxembourg Online S.A.	Mamer	Luxembourg	212.233.44.205	Capellen	L-8209
AS29119 ServiHosting Networks S.L.	Ciudad Real	Spain	212.231.208.231	Castille-La Mancha	13420
AS6713 Itissalat Al-MAGHRIB	Rabat	Morocco	212.217.1.178	Rabat-Sale-Kenitra	
AS25535 Autonomous Non-commercial Organization Regional Network Information Center	Khoroshëvskaya	Russia	212.193.247.42	Rostov	

AS34879 OOO Sovremennye setevye tekhnologii	Ryazan	Russia	212.193.146.73	Ryazanskaya Oblast'	
AS25535 Autonomous Non-commercial Organization Regional Network Information Center	Moscow	Russia	212.192.196.131	Moscow	
AS24699 PJSC Rostelecom	Ivanovo	Russia	212.124.22.186	Ivanovskaya Oblast'	
AS5593 United Telecom LLC	Ukrainka	Ukraine	212.110.153.56	Kiev	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.49.26.120	Seoul	
AS4766 Korea Telecom	Gimpo-si	Republic of Korea	211.33.151.175	Gyeonggi-do	
AS9318 SK Broadband Co Ltd	Incheon	Republic of Korea	211.215.225.39	Incheon	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.215.132.95	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	211.187.10.185	Seoul	
AS4766 Korea Telecom	Busan	Republic of Korea	211.184.175.63	Busan	
AS4780 Digital United Inc.	Taipei	Taiwan	210.64.89.7	Taipei City	
AS4766 Korea Telecom	Seoul	Republic of Korea	210.183.163.144	Seoul	
AS4766 Korea Telecom	Koyang-dong	Republic of Korea	210.123.151.31	Gyeonggi-do	
AS7018 AT&T; Services, Inc.	Tupelo	United States	209.64.38.70	Mississippi	38801
AS30094 Giganews, Inc.	Lincoln	United States	209.50.21.11	Nebraska	68505
AS20473 Choopa, LLC	Frankfurt am Main	Germany	209.250.238.142	Hesse	60314
AS7753 ipHouse	Minneapolis	United States	209.240.84.106	Minnesota	55435
AS22658 Earthnet, Inc.	Boulder	United States	209.169.6.12	Colorado	80309
AS8082 Worldsite Networks	Los Angeles	United States	209.134.3.116	California	90017
AS17185 Quonix Networks Inc.	West Chester	United States	208.82.130.157	Pennsylvania	19380
AS40328 AcenTek	La Crescent	United States	208.74.244.171	Minnesota	55947
AS7385 Integra Telecom, Inc.	Bountiful	United States	208.186.227.35	Utah	84010
AS11232 Midcontinent Communications	Moorhead	United States	208.107.127.46	Minnesota	56560
AS6181 Cincinnati Bell Telephone Company LLC	Cincinnati	United States	208.102.141.20	Ohio	45211
AS18435 The Junction Internet, LLC	Chelsea	United States	207.41.127.144	Oklahoma	74016
AS852 TELUS Communications Inc.	Montreal	Canada	207.34.201.225	Quebec	

AS5769 Videotron Telecom Ltee	Montreal	Canada	207.253.197.138	Quebec	H3H
AS7029 Windstream Communications LLC	Española	United States	207.155.49.104	New Mexico	87532
AS22140 T-Mobile USA, Inc.	Seattle	United States	206.29.176.5	Washington	
AS3561 Savvis	Chesterfield	United States	206.28.101.246	Missouri	63017
AS19318 NEW JERSEY INTERNATIONAL INTERNET EXCHANGE LLC	Secaucus	United States	205.209.97.15	New Jersey	07094
AS12989 StackPath LLC	Phoenix	United States	205.185.209.125	Arizona	85012
AS32584 I-Net Link Wireless	Brandon	Canada	204.9.11.144	Manitoba	R7B
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Swarthmore	United States	204.148.104.225	Pennsylvania	19081
AS18330 HONGIK UNIVERSITY	Seoul	Republic of Korea	203.249.73.254	Seoul	
AS10013 FreeBit Co.,Ltd.	Akita	Japan	203.192.126.6	Akita	013-0024
AS45899 VNPT Corp	Hanoi	Vietnam	203.162.172.194	Thanh Pho Ha Noi	
AS4657 StarHub Internet Exchange	Singapore	Singapore	203.118.13.99	Central Singapore Community Development Council	
AS4766 Korea Telecom	Seoul	Republic of Korea	203.109.7.108	Seoul	
AS8100 QuadraNet, Inc	Los Angeles	United States	202.91.32.137	California	90009
AS17465 Cable ISP in India	Kochi	India	202.88.226.8	Kerala	682001
AS24556 Bijoy Online Ltd. Multihome Internet Service Provider	Dhaka	Bangladesh	202.191.127.89	Dhaka Division	1212
AS17819 Equinix Asia Pacific	Singapore (Queenstown Estate)	Singapore	202.177.198.42	Central Singapore	
AS27699 TELEFÔNICA BRASIL S.A	São Paulo	Brazil	201.69.127.9	Sao Paulo	
AS27699 TELEFÔNICA BRASIL S.A	São Paulo	Brazil	201.43.103.120	Sao Paulo	
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Sao Jose	Brazil	201.35.225.198	Santa Catarina	
AS28284 Genius On Line Telecom. LTDA	Araraquara	Brazil	201.33.198.171	Sao Paulo	
AS22927 Telefonica de Argentina	Buenos Aires (Velez Sarsfield)	Argentina	201.250.83.145	Buenos Aires F.D.	
AS13489 EPM Telecomunicaciones S.A. E.S.P.	Medellín	Colombia	201.232.153.53	Antioquia	050003
AS10481 Prima S.A.	Coronel Dorrego	Argentina	201.231.233.22	Buenos Aires	8150
AS8048 CANTV Servicios, Venezuela	Caracas	Venezuela	201.209.251.65	Capital	

AS22927 Telefonica de Argentina	Buenos Aires	Argentina	201.179.165.155	Buenos Aires F.D.	34034
AS22927 Telefonica de Argentina	Lanus	Argentina	201.178.213.127	Buenos Aires	1824
AS8151 Uninet S.A. de C.V.	Tijuana	Mexico	201.171.70.61	Estado de Baja California	22703
AS11172 Alestra, S. de R.L. de C.V.	Monterrey	Mexico	201.163.43.25	Nuevo León	64720
AS8151 Uninet S.A. de C.V.	San Luis Río Colorado	Mexico	201.143.56.251	Sonora	83517
AS8151 Uninet S.A. de C.V.	Veracruz	Mexico	201.123.171.69	Veracruz	91700
AS8151 Uninet S.A. de C.V.	Mexico City (Manantial Peña Pobre)	Mexico	201.119.202.214	Mexico City	
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	201.119.192.217	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Veracruz	Mexico	201.111.63.220	Veracruz	91700
AS8151 Uninet S.A. de C.V.	Veracruz	Mexico	201.111.104.199	Veracruz	91709
AS8151 Uninet S.A. de C.V.	Tulancingo	Mexico	201.110.181.21	Hidalgo	43700
AS8151 Uninet S.A. de C.V.	Xalapa	Mexico	201.105.91.116	Veracruz	91227
AS21826 Corporación Telemic C.A.	Barinas	Venezuela	200.8.251.137	Barinas	
AS61583 WDS TELECOM LTDA. ME	Muqui	Brazil	200.196.133.192	Espirito Santo	29480
AS28169 BITCOM PROVEDOR DE SERVICOS DE INTERNET LTDA	Caxias do Sul	Brazil	200.185.194.164	Rio Grande do Sul	
AS27699 TELEFÔNICA BRASIL S.A	São Paulo	Brazil	200.158.170.145	Sao Paulo	
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Torres Novas	Portugal	2.83.238.235	Santarém	2350-000
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Seia	Portugal	2.80.206.95	Guarda	6270-000
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Guimarães	Portugal	2.80.177.158	Braga	4810-286
AS3301 Telia Company AB	Stockholm	Sweden	2.248.255.63	Stockholm	
AS6805 Telefonica Germany	Dortmund	Germany	2.243.204.135	North Rhine-Westphalia	44357
AS5607 Sky UK Limited	Newbury	United Kingdom	2.223.9.131	England	RG14
AS5607 Sky UK Limited	Coventry	United Kingdom	2.223.132.135	England	CV5

AS5607 Sky UK Limited	Leeds	United Kingdom	2.222.101.163	England	LS12
AS5607 Sky UK Limited	London	United Kingdom	2.221.196.57	England	EC2V
AS5607 Sky UK Limited	Cannock	United Kingdom	2.221.165.76	England	WS11
AS5607 Sky UK Limited	Nottingham	United Kingdom	2.219.66.81	England	NG7
AS5607 Sky UK Limited	Stoke-on-Trent	United Kingdom	2.217.141.152	England	ST4
AS5607 Sky UK Limited	Aberdeen	United Kingdom	2.216.53.169	Scotland	AB11
AS5607 Sky UK Limited	Greenwich	United Kingdom	2.216.156.88	England	SE10
AS3209 Vodafone GmbH	Dusseldorf	Germany	2.206.42.14	North Rhine-Westphalia	40217
AS3209 Vodafone GmbH	Flein	Germany	2.205.106.250	Baden-Württemberg Region	74223
AS31549 Aria Shatel Company Ltd	Yazd	Iran	2.183.210.202	Yazd	
AS1273 CW Vodafone Group PLC	Amsterdam	Netherlands	2.18.199.175	North Holland	
AS16625 Akamai Technologies, Inc.	Paris	France	2.18.113.110	Île-de-France	
AS12880 Information Technology Company (ITC)	Karaj	Iran	2.179.169.147	Alborz	
AS20940 Akamai International B.V.	Frankfurt am Main	Germany	2.17.122.122	Hesse	
AS6739 Vodafone Ono, S.A.	Zaragoza	Spain	2.152.242.44	Aragon	50015
AS3352 Telefonica De Espana	Salamanca	Spain	2.138.39.170	Castille and León	37002
AS3352 Telefonica De Espana	Castellbisbal	Spain	2.138.143.22	Catalonia	08755
AS3352 Telefonica De Espana	Madrid	Spain	2.137.168.151	Madrid	28005
AS9198 JSC Kazakhtelecom	Ridder	Kazakhstan	2.134.200.4	East Kazakhstan	
AS9198 JSC Kazakhtelecom	Oral	Kazakhstan	2.134.104.112	Batys Qazaqstan Oblysy	
AS9198 JSC Kazakhtelecom	Almaty	Kazakhstan	2.133.102.163	Almaty Qalasy	
AS5607 Sky UK Limited	Newcastle upon Tyne	United Kingdom	2.126.216.99	England	NE2
AS5607 Sky UK Limited	Dudley	United Kingdom	2.125.250.36	England	DY1
AS5607 Sky UK Limited	Bournemouth	United Kingdom	2.125.167.247	England	BH2
AS5607 Sky UK Limited	Nottingham	United Kingdom	2.122.217.57	England	NG7

AS5607 Sky UK Limited	Irvine	United Kingdom	2.121.222.82	Scotland	KA12
AS5607 Sky UK Limited	Aberdeen	United Kingdom	2.121.170.170	Scotland	AB11
AS5607 Sky UK Limited	Wandsworth	United Kingdom	2.120.110.137	England	SW18
AS3292 Tele Danmark	Sakskøbing	Denmark	2.110.137.201	Zealand	4990
AS3292 Tele Danmark	Odder	Denmark	2.109.43.232	Central Jutland	8300
AS3292 Tele Danmark	Tranbjerg	Denmark	2.106.87.72	Central Jutland	8310
AS13285 TalkTalk	Reading	United Kingdom	2.103.11.172	England	RG30
AS25847 ServInt	Los Angeles	United States	199.38.113.45	California	90017
AS33105 The Halton Board of Education	Oakville	Canada	199.235.36.226	Ontario	L6L
AS46664 VolumeDrive	The Bronx	United States	199.168.142.243	New York	10460
AS30466 Cable Axion Digitel Inc.	Racine	Canada	199.102.205.8	Quebec	
AS23535 HostRocket.com, Inc.	Clifton Park	United States	199.101.49.210	New York	12065
AS18978 Enzu Inc	Charlotte	United States	198.98.106.17	North Carolina	28202
AS5645 TekSavvy Solutions, Inc.	Ottawa	Canada	198.84.240.193	Ontario	K1N
AS36352 ColoCrossing	Buffalo	United States	198.46.211.182	New York	14202
AS5672 AT&T; Internet Services	Oklahoma City	United States	198.225.65.138	Oklahoma	
AS8452 TE-AS	Cairo	Egypt	197.43.50.28	Cairo Governorate	
AS37342 MOVITEL	Maputo (Alto Maé \B\)"	Mozambique	197.218.200.131	Maputo City	
AS2609 Tunisia BackBone AS	Mateur	Tunisia	197.14.226.1	Gouvernorat de Bizerte	
AS6713 Itissalat Al-MAGHRIB	Tangier	Morocco	196.80.207.143	Tanger-Tetouan-Al Hoceima	
AS36937 Neotel Pty Ltd	Ficksburg	South Africa	196.250.221.207	Orange Free State	9730
AS41564 Packet Exchange Limited	Dallas	United States	196.196.113.140	Texas	75207
AS174 Cogent Communications	New York	United States	196.19.30.196	New York	10118
AS29073 Quasi Networks LTD.	Victoria	Seychelles	196.17.158.136	English River	
AS19969 Joe's Datacenter, LLC	Kansas City	United States	196.16.190.199	Missouri	64121
AS41150 Chief Information-Commercial and Scientific-Production Regional Centre	Dnipro	Ukraine	195.64.190.1	Dnipro	49020
AS5391 Hrvatski Telekom d.d.	Zagreb	Croatia	195.29.17.161	Grad Zagreb	

AS5408 Greek Research and Technology Network S.A	Larissa	Greece	195.251.125.235	Thessaly	
AS6735 sdt.net AG	Obersontheim	Germany	195.245.46.224	Baden-Württemberg Region	74423
AS6735 sdt.net AG	Erbach	Germany	195.245.13.163	Baden-Württemberg Region	89155
AS8426 Claranet Ltd	Aves	Portugal	195.22.7.114	Porto	4795-091
AS21483 PVimpelCom	Krasnoyarsk	Russia	195.218.160.126	Krasnoyarskiy Kray	660000
AS2116 Broadnet AS	Oslo	Norway	195.204.102.25	Oslo County	0001
AS44401 LASNET Ltd.	Moscow	Russia	195.189.136.148	Moscow	102128
AS43769 Eurolan Sp. zoo	Bielsko-Biala	Poland	195.178.27.226	Silesia	43-300
AS8342 JSC RTComm.RU	Moscow	Russia	195.161.62.254	Moscow	102128
AS5413 Daisy Communications Ltd	Reading (Transcentral Bennet Road)	United Kingdom	195.147.210.22	England	
AS6855 Slovak Telecom, a. s.	Bratislava	Slovak Republic	195.146.142.9	Bratislavsky kraj	
AS6876 TeNeT Scientific Production Enterprise LLC	Odesa	Ukraine	195.138.65.206	Odessa	65012
AS5432 Proximus NV	Brussels	Belgium	194.78.86.209	Brussels Capital	1080
AS5432 Proximus NV	Sint-Martens-Latem	Belgium	194.78.213.163	Flanders	9830
AS5432 Proximus NV	Brussels	Belgium	194.78.171.154	Brussels Capital	1012
AS15772 LLC wnet Ukraine	Kiev	Ukraine	194.54.158.67	Kyiv City	
AS3255 State Enterprise Scientific and Telecommunication Centre Ukrainian Academic and Research Netw	Lviv	Ukraine	194.44.241.57	L'vivs'ka Oblast'	79039
AS3320 Deutsche Telekom AG	Lennestadt	Germany	194.25.158.14	North Rhine-Westphalia	
AS13193 Nerim SAS	Paris	France	194.242.114.227	Île-de-France	
AS5503 RM Education Ltd	Abingdon	United Kingdom	194.154.12.126	England	OX14
AS199670 DNS-Belgium	Leuven	Belgium	194.0.43.189	Flanders	
AS12301 Invitech Megoldasok Zrt.	Budaors	Hungary	193.91.88.197	Pest megye	2040
AS5603 Telekom Slovenije d.d.	Ljubljana	Slovenia	193.77.252.244	Ljubljana	
AS3215 Orange	Paris	France	193.252.3.196	Île-de-France	
AS3215 Orange	Puteaux	France	193.248.156.148	Île-de-France	
AS5588 T-Mobile Czech Republic a.s.	Klimkovice	Czechia	193.179.175.65	Moravskoslezsky kraj	742 83
AS3352 Telefonica De Espana	Benidorm	Spain	193.152.224.196	Valencia	03502
AS203524 JSC Pravilnye Lyudi	Moscow	Russia	193.124.42.33	Moscow	102128

AS3265 Xs4all Internet BV	Nijmegen (Nijmegen-Oost)	Netherlands	193.110.157.104	Gelderland	
AS50210 Adamov Evgeniy Vladimirovich	Tula	Russia	193.104.170.63	Tul'skaya Oblast'	
AS812 Rogers Communications Canada Inc.	Toronto	Canada	192.65.236.121	Ontario	M6G
AS35041 Levonline AB	Stockholm	Sweden	192.36.66.20	Stockholm	
AS36352 ColoCrossing	Buffalo	United States	192.3.232.203	New York	14202
AS36352 ColoCrossing	Buffalo	United States	192.3.205.61	New York	14202
AS36352 ColoCrossing	Buffalo	United States	192.3.145.205	New York	14202
AS53617 ECS Financial Services, Inc.	Northbrook	United States	192.26.144.112	Illinois	60062
AS14061 DigitalOcean, LLC	San Francisco	United States	192.241.194.238	California	94124
AS55286 B2 Net Solutions Inc.	Stoney Creek	Canada	192.198.97.208	Ontario	L8E
AS5650 Frontier Communications of America, Inc.	Circleville	United States	192.182.166.138	Ohio	43113
AS10796 Time Warner Cable Internet LLC	Louisville	United States	192.180.101.76	Kentucky	40216
AS42708 Portlane AB	Barcelona	Spain	192.121.124.120	Catalonia	08004
AS30036 Mediacom Communications Corp	Valdosta	United States	192.119.238.173	Georgia	31698
AS395378 Cascade Divide Colo, Inc.	Roseburg	United States	191.96.98.42	Oregon	97470
AS26599 TELEFÔNICA BRASIL S.A	São Paulo	Brazil	191.8.242.161	Sao Paulo	
AS53006 ALGAR TELECOM S/A	Uberlândia	Brazil	191.55.176.129	Minas Gerais	
AS27699 TELEFÔNICA BRASIL S.A	Sao Vicente	Brazil	191.205.190.243	Sao Paulo	
AS28573 CLARO S.A.	Curitiba	Brazil	191.177.13.193	Parana	
AS3816 COLOMBIA TELECOMUNICACIONES S.A. ESP	Bogotá (Teusaquillo)	Colombia	191.110.141.214	Bogota D.C.	
AS10620 Telmex Colombia S.A.	Bogotá	Colombia	190.84.225.194	Bogota D.C.	110221
AS8048 CANTV Servicios, Venezuela	Caracas (Roca Tarpeya)	Venezuela	190.74.181.83	Capital	
AS20299 Newcom Limited	San Pedro Sula	Honduras	190.53.57.160	Departamento de Cortes	
AS22047 VTR BANDA ANCHA S.A.	Copiapó	Chile	190.46.37.150	Atacama	
AS22047 VTR BANDA ANCHA S.A.	Santiago	Chile	190.45.16.156	Santiago Metropolitan	
AS6147 Telefonica del Peru S.A.A.	Lima	Peru	190.238.155.83	Provincia de Lima	

AS10481 Prima S.A.	Villa Devoto	Argentina	190.192.135.180	Buenos Aires F.D.	1674
AS22927 Telefonica de Argentina	Salto	Argentina	190.174.186.101	Buenos Aires	2741
AS22047 VTR BANDA ANCHA S.A.	Concepción	Chile	190.164.23.31	Region del Biobio	
AS10620 Telmex Colombia S.A.	Bogotá	Colombia	190.156.107.183	Bogota D.C.	110221
AS28006 CORPORACION NACIONAL DE TELECOMUNICACIONES - CNT EP	Quito	Ecuador	190.152.10.161	Provincia de Pichincha	
AS21826 Corporación Telémic C.A.	Altavracia	Venezuela	190.142.156.182	Sucre	
AS22047 VTR BANDA ANCHA S.A.	Santiago	Chile	190.101.74.35	Santiago Metropolitan	
AS27699 TELEFÔNICA BRASIL S.A	Campinas	Brazil	189.68.200.120	Sao Paulo	
AS28573 CLARO S.A.	Brasília	Brazil	189.61.106.4	Federal District	
AS28573 CLARO S.A.	Goiânia	Brazil	189.5.124.138	Goiás	
AS26615 Tim Celular S.A.	São Paulo	Brazil	189.40.52.225	Sao Paulo	
AS28307 Wideway do Brasil Ltda	Franca	Brazil	189.39.87.210	Sao Paulo	
AS8151 Uninet S.A. de C.V.	León	Mexico	189.253.200.210	Guanajuato	37500
AS8151 Uninet S.A. de C.V.	Colonia Benito Juarez	Mexico	189.252.69.35	Chihuahua	32472
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.249.158.131	Mexico City	63000
	Naucalpan	Mexico	189.245.58.41	Estado de Mexico	53370
AS8151 Uninet S.A. de C.V.	Chihuahua City	Mexico	189.244.55.135	Chihuahua	31160
AS8151 Uninet S.A. de C.V.	Cuernavaca	Mexico	189.235.13.56	Morelos	62070
AS8151 Uninet S.A. de C.V.	Naucalpan	Mexico	189.232.92.129	Estado de Mexico	53370
	Naucalpan	Mexico	189.230.174.253	Estado de Mexico	53370
AS8151 Uninet S.A. de C.V.	Pachuca	Mexico	189.228.4.5	Hidalgo	42184
AS8151 Uninet S.A. de C.V.	La Ciudad	Mexico	189.225.96.115	Durango	34676
AS8151 Uninet S.A. de C.V.	Naucalpan	Mexico	189.225.202.235	Estado de Mexico	53370
AS8151 Uninet S.A. de C.V.	Tijuana	Mexico	189.223.186.188	Estado de Baja California	22703
AS8151 Uninet S.A. de C.V.	Mexicali	Mexico	189.222.66.115	Estado de Baja California	21396
AS6503 Axtel, S.A.B. de C.V.	Aguascalientes	Mexico	189.212.99.54	Aguascalientes	20120

AS6503 Axtel, S.A.B. de C.V.	Mexico City	Mexico	189.207.171.221	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.191.28.232	Mexico City	55090
AS8151 Uninet S.A. de C.V.	Puebla City	Mexico	189.190.96.140	Puebla	72090
AS8151 Uninet S.A. de C.V.	Monterrey	Mexico	189.175.163.150	Nuevo León	64720
AS8151 Uninet S.A. de C.V.	Querétaro City	Mexico	189.169.7.78	Querétaro	76120
AS8151 Uninet S.A. de C.V.	Querétaro City	Mexico	189.169.17.41	Querétaro	76120
AS8151 Uninet S.A. de C.V.	Querétaro City	Mexico	189.166.127.224	Querétaro	76120
AS8151 Uninet S.A. de C.V.	Guadalajara	Mexico	189.163.20.249	Jalisco	44110
AS8151 Uninet S.A. de C.V.	León	Mexico	189.162.234.118	Guanajuato	37500
AS8151 Uninet S.A. de C.V.	Puebla City	Mexico	189.161.175.128	Puebla	72270
AS8151 Uninet S.A. de C.V.	Puebla City	Mexico	189.161.107.124	Puebla	72560
AS8151 Uninet S.A. de C.V.	Chihuahua City	Mexico	189.155.210.119	Chihuahua	31210
AS8151 Uninet S.A. de C.V.	Guadalupe	Mexico	189.154.139.25	Nuevo León	67192
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.151.127.196	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Cancún	Mexico	189.149.54.254	Quintana Roo	77500
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.147.51.18	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.137.211.236	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.134.112.67	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Chalco	Mexico	189.133.118.222	Estado de Mexico	56600
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	189.131.123.173	Mexico City	08500
AS8151 Uninet S.A. de C.V.	Minatitlán	Mexico	189.128.155.221	Veracruz	96700
AS3209 Vodafone GmbH	Oldenburg	Germany	188.96.184.2	Lower Saxony	26133
AS3269 Telecom Italia	Assemini	Italy	188.9.34.179	Sardinia	09032
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Ponte de Lima	Portugal	188.83.233.234	Viana do Castelo	4990-690

AS3243 Servicos De Comunicacoes E Multimedia S.A.	Caldas de Vizela	Portugal	188.83.154.178	Braga	4815-760
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Fafe	Portugal	188.83.152.125	Braga	4820-000
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Lourinhã	Portugal	188.82.86.143	Lisbon	2530-089
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Caldas da Rainha	Portugal	188.80.63.87	Leiria	2500-000
AS3243 Servicos De Comunicacoes E Multimedia S.A.	Guimarães	Portugal	188.80.139.11	Braga	4810-286
AS12715 Orange Espagne S.A.U.	Málaga	Spain	188.78.89.202	Andalusia	29190
AS12715 Orange Espagne S.A.U.	Madrid	Spain	188.78.214.140	Madrid	28028
AS3303 Swisscom (Switzerland) Ltd	Corcelles-pres-Payerne	Switzerland	188.60.203.21	Vaud	1562
AS1241 Forthnet	Chalandri	Greece	188.4.66.240	Attica	
AS42610 PJSC Rostelecom	Moscow	Russia	188.32.159.126	Moscow	102128
AS8386 Vodafone Net İletişim Hizmetleri Anonim Şirketi	Bursa	Turkey	188.3.186.94	Bursa	16940
AS8708 RCS & RDS	Bucharest	Romania	188.27.69.169	Bucuresti	050019
AS43205 Bulsatcom EAD	Pazardzhik	Bulgaria	188.254.245.21	Pazardzhik	4400
AS8708 RCS & RDS	Bucharest	Romania	188.25.75.11	Bucuresti	050019
AS8708 RCS & RDS	Bucharest	Romania	188.25.32.149	Bucuresti	050019
AS1759 Telia Finland Oyj	Helsinki	Finland	188.238.21.49	Uusimaa	
AS1759 Telia Finland Oyj	Helsinki	Finland	188.238.169.240	Uusimaa	
AS39435 JSC ER-Telecom Holding	Volgograd	Russia	188.233.156.107	Volgogradskaya Oblast'	
AS50543 JSC ER-Telecom Holding	Saratov	Russia	188.232.29.191	Saratovskaya Oblast'	410960
AS25229 Volia	Lviv	Ukraine	188.230.75.61	L'vivs'ka Oblast'	79040
AS5607 Sky UK Limited	Plymouth	United Kingdom	188.223.212.135	England	PL3
AS5607 Sky UK Limited	Hailsham	United Kingdom	188.220.155.221	England	BN27
AS39737 Net Vision Telecom SRL	Krasnoyarsk	Russia	188.214.199.225	Krasnoyarskiy Kray	
AS8926 Moldtelecom SA	Cahul	Republic of Moldova	188.212.44.213	Cahul	MD-3909
AS31042 Serbia BroadBand-Srpske Kablovske mreže d.o.o.	Zrenjanin	Serbia	188.2.155.191	Vojvodina	

AS31334 Vodafone Kabel Deutschland GmbH	Schweinfurt	Germany	188.195.120.33	Bavaria	97421
AS31334 Vodafone Kabel Deutschland GmbH	Landsberg am Lech	Germany	188.194.250.137	Bavaria	86899
AS31334 Vodafone Kabel Deutschland GmbH	Muehldorf	Germany	188.192.250.46	Bavaria	84453
AS3292 Tele Danmark	Ebeltoft	Denmark	188.180.245.21	Central Jutland	8400
AS3292 Tele Danmark	Tranbjerg	Denmark	188.178.27.180	Central Jutland	
AS6830 Liberty Global Operations B.V.	Bratislava	Slovakia	188.167.69.205	Bratislava	811 01
AS20845 DIGI Tavkozlesi es Szolgaltato Kft.	Budapest	Hungary	188.143.106.204	Budapest	1012
AS6876 TeNeT Scientific Production Enterprise LLC	Odesa	Ukraine	188.115.178.2	Odessa	65033
AS3209 Vodafone GmbH	Kreischa	Germany	188.108.39.113	Saxony	01731
AS3209 Vodafone GmbH	Hanover	Germany	188.108.247.65	Lower Saxony	30177
AS3209 Vodafone GmbH	Langen	Germany	188.107.80.236	Hesse	63225
AS3209 Vodafone GmbH	Frankfurt am Main	Germany	188.107.171.150	Hesse	60385
AS3209 Vodafone GmbH	Nuremberg	Germany	188.105.104.55	Bavaria	90408
AS3209 Vodafone GmbH	Leipzig	Germany	188.102.210.17	Saxony	04209
AS3209 Vodafone GmbH	Berlin	Germany	188.102.102.221	Land Berlin	12529
AS3209 Vodafone GmbH	Dresden	Germany	188.101.155.36	Saxony	01069
AS3209 Vodafone GmbH	Troisdorf	Germany	188.100.118.152	North Rhine-Westphalia	53842
AS21219 Private Joint Stock Company datagroup	Nikopol	Ukraine	188.0.73.252	Dnipropetrovsk	
AS53085 MKANET SERVICOS E COMERCIO DE INFORMATICA EIRELI	São Miguel do Oeste	Brazil	187.33.173.141	Santa Catarina	89900
AS13999 Mega Cable, S.A. de C.V.	Guadalajara	Mexico	187.244.99.171	Jalisco	44110
AS13999 Mega Cable, S.A. de C.V.	Colima	Mexico	187.243.119.37	Colima	28078
AS8151 Uninet S.A. de C.V.	Puebla City	Mexico	187.235.25.67	Puebla	72340
AS8151 Uninet S.A. de C.V.	Cuernavaca	Mexico	187.225.176.91	Morelos	62028
AS8151 Uninet S.A. de C.V.	Cuernavaca	Mexico	187.225.103.245	Morelos	62028
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	187.222.179.186	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	187.220.142.59	Mexico City	55320
AS8151 Uninet S.A. de C.V.	Mexico City	Mexico	187.207.229.63	Mexico City	63000
AS8151 Uninet S.A. de C.V.	Tepic	Mexico	187.204.9.42	Nayarit	63000

AS8151 Uninet S.A. de C.V.	Zapopan	Mexico	187.201.42.149	Jalisco	45136
AS8151 Uninet S.A. de C.V.	Tuxtla Gutiérrez	Mexico	187.171.76.3	Chiapas	29060
AS8151 Uninet S.A. de C.V.	Villahermosa	Mexico	187.154.221.75	Tabasco	86000
AS8151 Uninet S.A. de C.V.	Guadalajara	Mexico	187.152.211.51	Jalisco	44110
AS8151 Uninet S.A. de C.V.	Guasave	Mexico	187.149.8.142	Sinaloa	81121
AS8151 Uninet S.A. de C.V.	Córdoba	Mexico	187.146.88.60	Veracruz	94630
AS8151 Uninet S.A. de C.V.	Apatzingán	Mexico	187.142.52.201	Michoacán	60696
AS10620 Telmex Colombia S.A.	Santiago de Cali	Colombia	186.82.223.12	Departamento del Valle del Cauca	760001
AS14522 Satnet	Quito	Ecuador	186.71.238.25	Provincia de Pichincha	
AS5639 Telecommunication Services of Trinidad and Tobago	Scarborough	Trinidad and Tobago	186.45.245.224	Tobago	
AS27947 Telconet S.A	Guayaquil	Ecuador	186.33.136.79	Provincia del Guayas	
AS19429 Colombia	Bogotá	Colombia	186.31.32.126	Bogota D.C.	110221
AS28130 CERTTO TELECOMUNICAÇÕES LTDA EPP.	Cascavel	Brazil	186.251.146.24	Parana	
AS263009 FORTE TELECOM LTDA.	Rio das Ostras	Brazil	186.237.52.14	Rio de Janeiro	
AS52877 INTERPRIME TELECOMUNICACOES LTDA ME	Vila Velha	Brazil	186.232.74.54	Espirito Santo	
AS53183 QoS Tecnologia e Sistemas Ltda.	Estrela Dalva	Brazil	186.232.2.143	Minas Gerais	
AS262695 Tecwave Telecom Ltda.	Espumoso	Brazil	186.192.209.171	Rio Grande do Sul	99400
AS52393 Corporación Dana S.A.	Jersey City	United States	186.179.1.218	New Jersey	
AS11664 Techtel LMDS Comunicaciones Interactivas S.A.	Sarandi	Argentina	186.158.204.92	Buenos Aires	1872
AS3816 COLOMBIA TELECOMUNICACIONES S.A. ESP	Barranquilla	Colombia	186.117.138.105	Atlántico	
AS7303 Telecom Argentina S.A.	Córdoba	Argentina	186.109.7.14	Cordoba	5000
AS7418 TELEFÓNICA CHILE S.A.	Concepción	Chile	186.106.89.46	Region del Biobio	
AS205424 Ulunet Internet ve Iletisim Hizmetleri San. ve Tic. Ltd. Sti.	Bursa	Turkey	185.82.254.15	Bursa	16350

AS60609 Apfutura Internacional Soluciones SI	l'Ametlla de Mar	Spain	185.77.158.1	Catalonia	43860
AS12301 Invitech Megoldások Zrt.	Kaposvár	Hungary	185.69.96.115	Somogy megye	7400
AS200039 Hydra Communications Ltd	Paris	France	185.44.77.185	Île-de-France	75000
AS29053 Telenet Ltd.	Moscow (Vostochnyy administrativnyy okrug)	Russia	185.38.162.94	Moscow	
	Wolfgang	Germany	185.241.237.122	Hesse	63457
AS55569 Criteo APAC	Paris	France	185.235.86.227	Île-de-France	
AS24875 NovoServe B.V.	Paris	France	185.235.131.227	Île-de-France	
	Paris	France	185.234.150.229	Île-de-France	
AS42366 TerraTransit AG	Paris	France	185.233.241.109	Île-de-France	
AS35828 Teratrade Hungary Kft	Budapest (XIII. kerület)	Hungary	185.207.10.115	Budapest	
AS206189 Cable Aireworld S.A.U.	Elche	Spain	185.196.58.157	Valencia	03206
AS35278 Sprinthost.ru LLC	Moscow	Russia	185.185.70.161	Moscow	
AS200665 Hammerfest Energi Bredbaand AS	Hammerfest	Norway	185.180.232.181	Finnmark	9600
AS51580 Time-net S.r.l.	Gradisca d'Isonzo	Italy	185.180.181.47	Friuli Venezia Giulia	34072
AS3269 Telecom Italia	Palermo	Italy	185.18.26.170	Sicily	90100
AS60981 Communicate Business Solutions Ltd	Bristol	United Kingdom	185.179.208.212	England	BS1
AS62838 Reprise Hosting	Amsterdam	Netherlands	185.179.204.200	North Holland	
AS206548 Tlap s.r.o.	Prague	Czech Republic	185.178.173.11	Hlavni mesto Praha	
AS203329 e-shelter services GmbH	Frankfurt am Main	Germany	185.138.142.169	Hesse	60489
AS3209 Vodafone GmbH	Borfink	Germany	185.121.99.3	Rheinland-Pfalz	54422
AS203934 Digital Garage S.l.	Marinaleda	Spain	185.118.158.197	Andalusia	41569
AS48504 OpenIP SARL	Paris	France	185.117.39.234	Île-de-France	75001
AS204060 Origine Impianti srl	Andrano	Italy	185.116.2.159	Apulia	73032
AS48823 Hosting.de GmbH	Aachen	Germany	185.11.136.249	North Rhine-Westphalia	
AS31631 Telcom Networks Limited	Manchester	United Kingdom	185.108.171.234	England	M40
AS35041 Levonline AB	Tullinge	Sweden	185.102.215.36	Stockholm	146 00
AS8265 FASTNET SpA	Macerata	Italy	185.100.176.89	The Marches	62100
AS209 Qwest Communications Company, LLC	Des Moines	United States	184.97.58.154	Iowa	50311
AS2914 NTT America, Inc.	Cambridge	United States	184.87.162.187	Massachusetts	02142

AS209 Qwest Communications Company, LLC	Gladehill	United States	184.6.7.240	Virginia	24092
AS9498 BHARTI Airtel Ltd.	Cambridge	United States	184.51.26.203	Massachusetts	02142
AS209 Qwest Communications Company, LLC	Angier	United States	184.3.253.113	North Carolina	27501
AS1680 013 NetVision Ltd	Cambridge	United States	184.29.71.144	Massachusetts	02142
AS15802 Emirates Integrated Telecommunications Company PJSC (EITC-DU)	Cambridge	United States	184.29.234.216	Massachusetts	02142
AS2914 NTT America, Inc.	Cambridge	United States	184.27.196.54	Massachusetts	02142
AS7843 Time Warner Cable Internet LLC	Cambridge (Mit)	United States	184.26.154.190	Massachusetts	
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	184.25.252.21	North Holland	1091
AS2914 NTT America, Inc.	Cambridge	United States	184.24.171.104	Massachusetts	02142
AS2379 Embarq Corporation	Lady Lake	United States	184.2.20.37	Florida	32162
AS33182 HostDime.com, Inc.	Orlando	United States	184.171.248.42	Florida	32826
AS22561 CenturyTel Internet Holdings, Inc.	Sparta	United States	184.158.50.77	Wisconsin	54656
AS32475 SingleHop, Inc.	Chicago	United States	184.154.242.190	Illinois	60661
AS5650 Frontier Communications of America, Inc.	Fairmont	United States	184.15.33.2	West Virginia	26554
AS5650 Frontier Communications of America, Inc.	Fairmont	United States	184.14.204.129	West Virginia	26554
AS6939 Hurricane Electric, Inc.	San Francisco	United States	184.105.224.165	California	94119
AS209 Qwest Communications Company, LLC	Chandler	United States	184.103.197.181	Arizona	85226
AS209 Qwest Communications Company, LLC	Henderson	United States	184.0.177.96	North Carolina	27537
AS18209 Atria Convergence Technologies pvt ltd	Hyderabad	India	183.82.59.3	Telangana	500006
AS4134 No.31,Jin-rong Street	Chongqing	China	183.67.85.6	Chongqing	
AS4134 No.31,Jin-rong Street	Guangzhou	China	183.55.92.253	Guangdong	
AS56040 China Mobile communications corporation	Guangzhou	China	183.240.15.95	Guangdong	

AS24400 Shanghai Mobile Communications Co.,Ltd.	Shanghai	China	183.195.214.169	Shanghai	
AS4837 CHINA UNICOM China169 Backbone	Taiyuan	China	183.185.138.240	Shanxi	
AS9269 Hong Kong Broadband Network Ltd.	City of Victoria	Hong Kong	183.178.43.88	Central and Western District	
AS4134 No.31,Jin-rong Street	Guilin	China	183.16.189.220	Guangxi	
AS4134 No.31,Jin-rong Street	Jinhua	China	183.154.169.198	Zhejiang	
AS4134 No.31,Jin-rong Street	Beijing	China	183.149.8.196	Beijing	
AS4134 No.31,Jin-rong Street	Huzhou	China	183.143.72.187	Zhejiang	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	183.122.6.253	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	183.119.123.12	Gyeonggi-do	
AS4766 Korea Telecom	Seoul (Bangbae-dong)	Republic of Korea	183.114.222.83	Seoul	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	183.110.233.34	Gyeonggi-do	
AS4766 Korea Telecom	Busan	Republic of Korea	183.105.115.168	Busan	
AS4766 Korea Telecom	Seoul	Republic of Korea	183.100.181.37	Seoul	
AS24560 Bharti Airtel Ltd., Telemedia Services	Noida	India	182.69.228.135	Uttar Pradesh	201301
AS24560 Bharti Airtel Ltd., Telemedia Services	Chennai	India	182.65.68.50	Tamil Nadu	
AS17813 Mahanagar Telephone Nigam Limited	Mumbai	India	182.57.48.118	Maharashtra	
AS59050 Beijing Cloud-Ark Technology Co.,Ltd.	Hangzhou	China	182.49.49.91	Zhejiang	
AS4134 No.31,Jin-rong Street	Jinan	China	182.42.159.198	Shandong	
AS4134 No.31,Jin-rong Street	Kunming	China	182.245.160.5	Yunnan	
AS4766 Korea Telecom	Seoul (Ganhodae-ro 3-gil)	Republic of Korea	182.237.86.183	Seoul	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	182.212.95.138	Seoul	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	182.212.123.224	Seoul	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	182.209.135.188	Seoul	
AS45595 Pakistan Telecom Company Limited	Lahore	Pakistan	182.176.132.141	Punjab	54000

AS10036 DLIVE	Seoul	Republic of Korea	182.172.100.35	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	182.125.240.81	Henan	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	182.122.173.25	Henan	
AS4837 CHINA UNICOM China169 Backbone	Luohe	China	182.120.195.188	Henan	
AS4837 CHINA UNICOM China169 Backbone	Shanghai	China	182.113.56.229	Shanghai	
AS4134 No.31,Jin-rong Street	Nanchang	China	182.109.57.4	Jiangxi	
AS4134 No.31,Jin-rong Street	Nanchang	China	182.108.47.165	Jiangxi	
AS6147 Telefonica del Peru S.A.A.	Lima	Peru	181.67.246.184	Lima	
AS6147 Telefonica del Peru S.A.A.	Lurín	Peru	181.66.76.201	Lima region	
AS10620 Telmex Colombia S.A.	Bogotá	Colombia	181.50.73.96	Bogota D.C.	111311
AS10318 CABLEVISION S.A.	Chivilcoy	Argentina	181.31.220.103	Buenos Aires	6620
AS10481 Prima S.A.	La Plata	Argentina	181.231.180.95	Buenos Aires	1900
AS10481 Prima S.A.	Buenos Aires	Argentina	181.229.58.149	Buenos Aires F.D.	34034
AS61440 Digital Energy Technologies Chile SpA	Denver	United States	181.214.160.133	Colorado	80216
AS22927 Telefonica de Argentina	San Miguel	Argentina	181.21.109.123	Buenos Aires	1663
AS10318 CABLEVISION S.A.	Buenos Aires	Argentina	181.167.70.43	Buenos Aires F.D.	34034
AS10318 CABLEVISION S.A.	Rafaela	Argentina	181.165.252.135	Santa Fe	2300
AS27984 Ver Tv S.A.	Mercedes	Argentina	181.16.84.115	Buenos Aires	6600
AS13489 EPM Telecomunicaciones S.A. E.S.P.	Medellín	Colombia	181.140.216.14	Antioquia	050002
AS7303 Telecom Argentina S.A.	Villa Angelica	Argentina	181.14.142.143	Entre Rios	2000
AS28011 CORPORACION NACIONAL DE TELECOMUNICACIONES - CNT EP	Portoviejo	Ecuador	181.112.3.183	Provincia de Manabi	
AS9318 SK Broadband Co Ltd	Seongnam-si	Republic of Korea	180.71.13.253	Gyeonggi-do	
AS17974 PT Telekomunikasi Indonesia	Tasikmalaya	Indonesia	180.253.211.78	West Java	
AS7713 PT Telekomunikasi Indonesia	Balikpapan	Indonesia	180.248.105.5	East Kalimantan	

AS4812 China Telecom (Group)	Shanghai	China	180.168.106.93	Shanghai	
AS4812 China Telecom (Group)	Shanghai	China	180.163.232.184	Shanghai	
AS4812 China Telecom (Group)	Shanghai	China	180.158.202.78	Shanghai	
AS4812 China Telecom (Group)	Shanghai	China	180.154.49.69	Shanghai	
AS4134 No.31,Jin-rong Street	Wuxi	China	180.125.176.248	Jiangsu	
AS4134 No.31,Jin-rong Street	Nanjing	China	180.121.51.133	Jiangsu	
AS4134 No.31,Jin-rong Street	Suzhou	China	180.107.8.136	Jiangsu	
AS263407 Cyber Midia Emp., Assessoria e Informática	Senhor do Bonfim	Brazil	179.96.235.51	Bahia	48970
AS26599 TELEFÔNICA BRASIL S.A	Botucatu	Brazil	179.94.164.14	Sao Paulo	
AS35415 Webzilla B.V.	San José	Costa Rica	179.63.147.182	Provincia de San Jose	
AS26615 Tim Celular S.A.	Rio de Janeiro	Brazil	179.55.8.150	Rio de Janeiro	
AS263421 NR Telecom EIRELI - ME	Rio Claro	Brazil	179.191.252.57	Sao Paulo	
AS263590 LOCAWEB SERVICOS DE INTERNET S.A.	São Paulo	Brazil	179.109.219.43	Sao Paulo	
AS28300 MMA ACESSORIOS E SERVICOS DE INFORMATICA LTDA.	Santo Antonio de Jesus	Brazil	179.107.169.134	Bahia	
AS9198 JSC Kazakhtelecom	Almaty	Kazakhstan	178.89.205.134	Almaty Qalasy	
AS9198 JSC Kazakhtelecom	Almaty	Kazakhstan	178.89.152.195	Almaty Qalasy	
AS6830 Liberty Global Operations B.V.	Alkmaar	Netherlands	178.84.197.146	North Holland	1814
AS6830 Liberty Global Operations B.V.	Thun	Switzerland	178.82.145.155	Bern	3604
AS3209 Vodafone GmbH	Berlin	Germany	178.8.254.138	Land Berlin	12529
AS63949 Linode, LLC	London	United Kingdom	178.79.159.217	England	EC2V
AS63949 Linode, LLC	London	United Kingdom	178.79.131.236	England	EC2V
AS8997 PJSC Rostelecom	St Petersburg	Russia	178.69.54.92	St.-Petersburg	190817
AS12389 PJSC Rostelecom	Khmelevoye	Russia	178.69.207.167	Vologodskaya Oblast'	162627
AS12389 PJSC Rostelecom	Syktyvkar	Russia	178.68.176.244	Komi	167002
AS12389 PJSC Rostelecom	Kandalaksha	Russia	178.65.218.47	Murmansk	
AS3209 Vodafone GmbH	Münster	Germany	178.6.109.232	North Rhine-Westphalia	48143

AS47377 Orange Belgium SA	Brussels	Belgium	178.50.8.219	Brussels Capital	1012
AS12389 PJSC Rostelecom	Krasnodar	Russia	178.34.24.173	Krasnodarskiy Kray	350000
AS16276 OVH SAS	Roubaix	France	178.33.44.25	Nord-Pas-de-Calais	
AS16276 OVH SAS	Saarbrücken (St. Johann)	Germany	178.33.33.132	Saarland	
AS16276 OVH SAS	Paris	France	178.33.168.127	Île-de-France	
AS16276 OVH SAS	Milan	Italy	178.33.0.254	Lombardy	
AS31334 Vodafone Kabel Deutschland GmbH	Erfurt	Germany	178.24.70.97	Thuringia	99084
AS39647 Redhosting B.V.	Almere Stad (Literatuurwijk)	Netherlands	178.238.109.186	Flevoland	
AS200755 Stacja-NET Marek Gocłowski	Ostrow Mazowiecka	Poland	178.213.143.248	Mazovia	07-300
AS6830 Liberty Global Operations B.V.	Hilchenbach	Germany	178.200.29.161	North Rhine-Westphalia	57271
AS3209 Vodafone GmbH	Stuttgart	Germany	178.2.126.13	Baden-Württemberg Region	70173
AS3303 Swisscom (Switzerland) Ltd	Stettlen	Switzerland	178.196.238.4	Bern	3066
AS3303 Swisscom (Switzerland) Ltd	Bern	Switzerland	178.195.165.243	Bern	3004
AS3303 Swisscom (Switzerland) Ltd	Zurich	Switzerland	178.194.156.190	Zurich	8037
AS3303 Swisscom (Switzerland) Ltd	Bern	Switzerland	178.194.138.171	Bern	3006
AS3303 Swisscom (Switzerland) Ltd	Nidau	Switzerland	178.194.106.140	Bern	2560
AS3303 Swisscom (Switzerland) Ltd	Chur	Switzerland	178.193.186.25	Grisons	7000
AS3303 Swisscom (Switzerland) Ltd	Locarno	Switzerland	178.192.180.108	Ticino	6600
AS8447 A1 Telekom Austria AG	Vienna (Leopoldstadt)	Austria	178.188.214.78	Vienna	
AS12389 PJSC Rostelecom	Barnaul	Russia	178.187.238.4	Altai Krai	656000
AS43205 Bulsatcom EAD	Haskovo	Bulgaria	178.169.217.116	Haskovo	6300
AS25106 Mobile TeleSystems JLLC	Mogilev	Belarus	178.168.195.245	Mogilev	212000
AS34700 Maxnet Telecom, Ltd	Kharkiv	Ukraine	178.165.26.169	Kharkivs'ka Oblast'	61168
AS20845 DIGI Tavkozlesi es Szolgáltató Kft.	Kecskemét	Hungary	178.164.239.172	Bács-Kiskun	6000
AS20845 DIGI Tavkozlesi es Szolgáltató Kft.	Budapest	Hungary	178.164.133.9	Budapest	1012
AS8416 Infoline Ltd.	Tolyatti	Russia	178.163.18.109	Samarskaya Oblast'	445039
AS28753 Leaseweb Deutschland GmbH	Frankfurt am Main (Innenstadt)	Germany	178.162.212.195	Hesse	

AS28753 Leaseweb Deutschland GmbH	Frankfurt am Main (Innenstadt)	Germany	178.162.212.120	Hesse	
AS34177 Celeste SAS	Paris	France	178.16.175.233	Île-de-France	75001
AS13188 Content Delivery Network Ltd	Dnipro	Ukraine	178.151.212.98	Dnipro	49081
AS42610 PJSC Rostelecom	Moscow	Russia	178.140.142.223	Moscow	119634
AS3209 Vodafone GmbH	Nuremberg	Germany	178.14.99.12	Bavaria	90489
AS3209 Vodafone GmbH	Crimmitschau	Germany	178.14.252.30	Saxony	08451
AS35805 JSC Silknet	Tbilisi	Georgia	178.134.173.13	K'alak'i T'bilisi	
AS28812 PJSC Bashinformsvyaz	Oktyabr'skiy	Russia	178.129.157.166	Bashkortostan	452600
AS3209 Vodafone GmbH	Berlin	Germany	178.12.227.91	Land Berlin	12049
AS6848 Telenet BVBA	Aalter	Belgium	178.117.125.24	Flanders	9880
AS6848 Telenet BVBA	Roeselare	Belgium	178.116.218.102	Flanders	8800
AS6848 Telenet BVBA	Moorslede	Belgium	178.116.212.187	Flanders	8890
AS3209 Vodafone GmbH	Hanover	Germany	178.11.147.185	Lower Saxony	30451
AS3209 Vodafone GmbH	Stuttgart	Germany	178.10.161.129	Baden-Württemberg Region	70186
AS3209 Vodafone GmbH	Duisburg	Germany	178.1.241.106	North Rhine-Westphalia	45478
AS3209 Vodafone GmbH	Berlin	Germany	178.0.55.132	Land Berlin	10963
AS3209 Vodafone GmbH	Berlin	Germany	178.0.54.165	Land Berlin	10999
AS3209 Vodafone GmbH	Berlin	Germany	178.0.217.170	Land Berlin	12529
AS27699 TELEFÔNICA BRASIL S.A	Taubate	Brazil	177.9.207.168	Sao Paulo	
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Sao Jose	Brazil	177.7.203.245	Santa Catarina	
AS262460 Ubannet Internet e Informatica Ltda ME	Condado	Brazil	177.53.74.65	Pernambuco	55940
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Goiânia	Brazil	177.5.211.250	Goiás	
AS52767 Capinzal Net Servicos Ltda Epp	Capinzal	Brazil	177.39.132.117	Santa Catarina	89665
AS8167 Brasil Telecom S/A - Filial Distrito Federal	Vera Cruz do Oeste	Brazil	177.3.71.33	Parana	
AS13999 Mega Cable, S.A. de C.V.	Guadalajara	Mexico	177.245.79.35	Jalisco	44110
AS262877 MIRAGENET TELECOMUNICACOES LTDA	Leme	Brazil	177.21.194.200	Sao Paulo	
AS26599 TELEFÔNICA BRASIL S.A	Santo André	Brazil	177.198.69.178	Sao Paulo	
AS52923 Netcar Internet Telec Info e Tecnologia LTDA	Itamarandiba	Brazil	177.184.178.22	Minas Gerais	39670
AS7738 Telemar Norte Leste S.A.	Juazeiro do Norte	Brazil	177.177.171.205	Ceara	

AS28573 CLARO S.A.	Rio de Janeiro	Brazil	177.142.54.164	Rio de Janeiro	
AS263627 Wnestsistem Comercio e Servicos de Informatica Ltda	Icem	Brazil	177.12.94.65	Sao Paulo	
AS262730 Byteweb Comunicação Multimídia Ltda.	Sao Joao da Boa Vista	Brazil	177.107.7.195	Sao Paulo	
AS28658 Gigalink de Nova Friburgo Soluções em Rede Multimi	Nova Friburgo	Brazil	177.107.228.129	Rio de Janeiro	
AS262615 GravataNET LTDA	Gravatá	Brazil	177.101.166.191	Pernambuco	
AS48330 FOP Sinev Maksim Viktorovich	Simferopol	Ukraine	176.99.126.167	Republic of Crimea	
AS3352 Telefonica De Espana	San Sebastián de La Gomera	Spain	176.85.239.1	Canary Islands	38800
AS15895 Kyivstar PJSC	Ternopil	Ukraine	176.8.121.195	Ternopil's'ka Oblast'	46023
AS1257 TELE2	Stockholm (Kista)	Sweden	176.71.251.228	Stockholm	
AS6830 Liberty Global Operations B.V.	Szentes	Hungary	176.63.208.8	Csongrad megye	6600
AS42926 Radore Veri Merkezi Hizmetleri A.S.	Istanbul	Turkey	176.53.10.107	Istanbul	
AS5607 Sky UK Limited	Leeds	United Kingdom	176.27.144.111	England	LS12
AS5607 Sky UK Limited	Kensington	United Kingdom	176.26.237.124	England	W8
AS5607 Sky UK Limited	Liverpool	United Kingdom	176.26.187.109	England	L3
AS5607 Sky UK Limited	Notting Hill Gate	United Kingdom	176.25.237.114	England	W11
AS5607 Sky UK Limited	Wandsworth	United Kingdom	176.249.231.190	England	SW18
AS21299 2DAY Telecom LLP	Temirtau	Kazakhstan	176.222.181.21	Qaraghandy Oblysy	
AS8386 Vodafone Net Iletisim Hizmetleri Anonim Sirketi	Izmir	Turkey	176.217.70.1	Izmir	35800
AS8386 Vodafone Net Iletisim Hizmetleri Anonim Sirketi	Istanbul	Turkey	176.217.153.15	Istanbul	
AS8386 Vodafone Net Iletisim Hizmetleri Anonim Sirketi	Izmir	Turkey	176.216.241.133	Izmir	35280
AS51819 JSC ER-Telecom Holding	Yaroslavl	Russia	176.214.92.187	Yaroslavska Oblast'	
AS39028 JSC ER-Telecom Holding	Ulyanovsk	Russia	176.212.231.115	Ulyanovsk Oblast	432043
AS6830 Liberty Global Operations B.V.	Wuppertal	Germany	176.198.64.247	North Rhine-Westphalia	42107

AS49821 Electrics Ltd	Vologda	Russia	176.126.55.125	Vologodskaya Oblast'	160034
AS48730 ARTNET LTD	Donetsk	Ukraine	176.121.226.129	Donets'ka Oblast'	
AS6876 TeNeT Scientific Production Enterprise LLC	Odesa	Ukraine	176.119.85.100	Odessa	65005
AS58136 OOO RGTS Parus	Ruzayevka	Russia	176.116.213.96	Respublika Mordoviya	431440
AS198577 BEST PARTNER Andrzej Czachor	Opole	Poland	176.111.140.21	Opole Voivodeship	
AS41911 Lanet Network Ltd	Kiev	Ukraine	176.110.35.67	Kyiv City	
AS41854 JSC ER-Telecom Holding	Ryazan	Russia	176.104.206.250	Ryazanskaya Oblast'	390000
AS9009 M247 Ltd	Stretford	United Kingdom	176.10.82.86	England	
AS4134 No.31,Jin-rong Street	Changsha	China	175.8.1.159	Hunan	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.250.8.13	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.239.232.160	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.236.106.35	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.234.163.133	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.229.118.30	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	175.227.50.39	Gyeonggi-do	
AS4766 Korea Telecom	Jeonju	Republic of Korea	175.208.8.101	Jeollabuk-do	
AS4766 Korea Telecom	Mokpo	Republic of Korea	175.201.125.124	Jeollanam-do	
AS4837 CHINA UNICOM China169 Backbone	Dalian	China	175.171.104.158	Liaoning	
AS4837 CHINA UNICOM China169 Backbone	Anshan	China	175.146.97.195	Liaoning	
AS4788 TM Net, Internet Service Provider	Kuala Lumpur	Malaysia	175.141.0.62	Kuala Lumpur	68100
AS4788 TM Net, Internet Service Provider	Skudai	Malaysia	175.136.45.175	Johor	81300
AS9318 SK Broadband Co Ltd	Anyang-si	Republic of Korea	175.116.8.252	Gyeonggi-do	
AS4134 No.31,Jin-rong Street	Changsha	China	175.0.18.55	Hunan	
AS10796 Time Warner Cable Internet LLC	Cincinnati	United States	174.97.48.56	Ohio	45251
AS10796 Time Warner Cable Internet LLC	Canton	United States	174.96.6.177	Ohio	44705

AS20115 Charter Communications	Cedartown	United States	174.80.137.152	Georgia	30125
AS22773 Cox Communications Inc.	Fairfax	United States	174.79.188.139	Virginia	22030
AS22773 Cox Communications Inc.	Glastonbury (South Glastonbury)	United States	174.75.80.201	Connecticut	
AS22773 Cox Communications Inc.	Rancho Santa Margarita	United States	174.67.209.128	California	92688
AS22773 Cox Communications Inc.	San Diego	United States	174.65.63.74	California	92102
AS7922 Comcast Cable Communications, LLC	Peabody	United States	174.62.154.1	Massachusetts	01960
AS7922 Comcast Cable Communications, LLC	Kingston	United States	174.59.145.132	Pennsylvania	18704
AS7922 Comcast Cable Communications, LLC	Deerfield Beach	United States	174.48.192.85	Florida	33442
AS209 Qwest Communications Company, LLC	Phoenix	United States	174.19.157.27	Arizona	85016
AS40438 Canhost Inc.	Lewes	United States	174.140.60.136	Delaware	19958
AS46844 Sharktech	Denver	United States	174.128.242.89	Colorado	80202
AS22561 CenturyTel Internet Holdings, Inc.	Weyauwega	United States	174.125.240.154	Wisconsin	54983
AS812 Rogers Communications Canada Inc.	Cambridge	Canada	174.115.13.187	Ontario	N1R
AS11426 Time Warner Cable Internet LLC	Raleigh	United States	174.109.245.245	North Carolina	27613
AS11426 Time Warner Cable Internet LLC	Creedmoor	United States	174.109.226.33	North Carolina	27522
AS10796 Time Warner Cable Internet LLC	Columbus	United States	174.105.130.137	Ohio	43227
AS11426 Time Warner Cable Internet LLC	Reidsville	United States	173.94.235.47	North Carolina	27320
AS10796 Time Warner Cable Internet LLC	Vermilion	United States	173.91.186.248	Ohio	44089
AS10796 Time Warner Cable Internet LLC	Akron	United States	173.89.79.207	Ohio	44312
AS10796 Time Warner Cable Internet LLC	Lima	United States	173.88.15.76	Ohio	45801
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Rockville	United States	173.79.25.247	Maryland	20850
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Bellmore	United States	173.77.175.152	New York	11710
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Lynnfield	United States	173.76.159.116	Massachusetts	01940

AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Pittsburgh	United States	173.75.8.171	Pennsylvania	15228
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Montclair	United States	173.70.194.35	New Jersey	07042
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Brooklyn	United States	173.68.249.140	New York	11213
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Buffalo	United States	173.64.53.166	New York	14225
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Hopewell	United States	173.61.134.11	New Jersey	08525
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Forest Hills	United States	173.52.199.250	New York	11375
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Allentown	United States	173.49.135.131	Pennsylvania	18102
AS812 Rogers Communications Canada Inc.	Kitchener	Canada	173.35.54.94	Ontario	N2G
AS22781 Strong Technology, LLC.	San Francisco	United States	173.255.170.101	California	94124
AS53488 Morris Broadband, LLC	Hendersonville	United States	173.246.203.116	North Carolina	28739
AS46261 QuickPacket, LLC	Los Angeles	United States	173.228.189.183	California	90009
AS20940 Akamai International B.V.	Cambridge (Mit)	United States	173.223.204.20	Massachusetts	
AS19108 Suddenlink Communications	Jonesboro	United States	173.218.126.175	Arkansas	72401
AS19108 Suddenlink Communications	Sulphur	United States	173.217.83.70	Louisiana	70663
AS16815 Mobility Apps division	Santa Barbara	United States	173.199.11.138	California	93110
AS36351 SoftLayer Technologies Inc.	Chantilly	United States	173.193.211.143	Virginia	20151
AS30036 Mediacom Communications Corp	Rock Island	United States	173.19.246.43	Illinois	61201
AS7029 Windstream Communications LLC	Dahlonega	United States	173.184.89.140	Georgia	30533
AS7029 Windstream Communications LLC	Pendergrass	United States	173.184.47.166	Georgia	30567
AS11427 Time Warner Cable Internet LLC	El Paso	United States	173.175.170.169	Texas	79902
AS11427 Time Warner Cable Internet LLC	Austin	United States	173.174.76.32	Texas	78758

AS11427 Time Warner Cable Internet LLC	San Antonio	United States	173.174.224.104	Texas	78223
AS33363 BRIGHT HOUSE NETWORKS, LLC	Spring Hill	United States	173.171.20.56	Florida	34610
AS33363 BRIGHT HOUSE NETWORKS, LLC	Spring Hill	United States	173.170.157.117	Florida	34609
AS7922 Comcast Cable Communications, LLC	Factoryville	United States	173.163.26.182	Pennsylvania	18419
AS30036 Mediacom Communications Corp	Clinton	United States	173.16.64.162	Iowa	52732
AS7922 Comcast Cable Communications, LLC	Pleasant Grove	United States	173.14.66.5	California	95668
AS174 Cogent Communications	San Francisco	United States	173.0.8.226	California	94104
AS20001 Time Warner Cable Internet LLC	La Mirada	United States	172.89.131.169	California	90638
AS5650 Frontier Communications of America, Inc.	Canajoharie	United States	172.76.87.60	New York	13317
AS11426 Time Warner Cable Internet LLC	Indian Trail	United States	172.73.251.100	North Carolina	28079
AS13335 Cloudflare Inc	San Francisco	United States	172.65.164.241	California	94107
AS13335 Cloudflare Inc	San Francisco	United States	172.64.140.2	California	94107
AS20001 Time Warner Cable Internet LLC	Woodland Hills	United States	172.251.166.222	California	91367
AS20001 Time Warner Cable Internet LLC	Manhattan Beach	United States	172.250.228.1	California	90266
AS20001 Time Warner Cable Internet LLC	Compton	United States	172.249.245.155	California	90221
AS7922 Comcast Cable Communications, LLC	Kissimmee	United States	172.244.103.37	Florida	
AS16625 Akamai Technologies, Inc.	Cambridge	United States	172.229.227.231	Massachusetts	02142
AS16625 Akamai Technologies, Inc.	Cambridge	United States	172.227.162.37	Massachusetts	02142
AS2914 NTT America, Inc.	Cambridge	United States	172.226.247.105	Massachusetts	02142
AS20001 Time Warner Cable Internet LLC	Chino Hills	United States	172.115.40.87	California	91709
AS20001 Time Warner Cable Internet LLC	Los Angeles	United States	172.114.151.235	California	90033
AS20001 Time Warner Cable Internet LLC	Los Angeles	United States	172.113.197.170	California	90037
AS20001 Time Warner Cable Internet LLC	Garden Grove	United States	172.112.60.95	California	92841
AS11351 Time Warner Cable Internet LLC	Augusta	United States	172.101.0.44	Maine	04330
AS11351 Time Warner Cable Internet LLC	Jamestown	United States	172.100.151.243	New York	14701

AS4134 No.31,Jin-rong Street	Wuhan	China	171.81.198.179	Hubei	
AS45758 Triple T Internet/Triple T Broadband	Bangkok	Thailand	171.7.121.134	Bangkok	10160
AS24560 Bharti Airtel Ltd., Telemedia Services	Chennai	India	171.61.224.146	Tamil Nadu	
AS45758 Triple T Internet/Triple T Broadband	Bangkok	Thailand	171.6.86.230	Bangkok	96468
AS45758 Triple T Internet/Triple T Broadband	Chachoengsao	Thailand	171.5.189.197	Changwat Chachoengsao	24000
AS7552 Viettel Group	Ho Chi Minh City	Vietnam	171.248.32.39	Ho Chi Minh City	
AS7552 Viettel Group	Nha Trang	Vietnam	171.243.112.241	Tinh Khanh Hoa	
AS7552 Viettel Group	Hanoi	Vietnam	171.238.210.88	Thanh Pho Ha Noi	
AS7552 Viettel Group	Thanh pho Bac Lieu	Vietnam	171.235.137.174	Tinh Bac Lieu	
AS262865 (DELTA TELECOM INTERNET) Anjos Informática Ltda	Astorga	Brazil	170.82.60.80	Parana	86730
AS266310 EZEQUIEL EUCLIDES NEPOMUCENO-ME	Altinho	Brazil	170.79.199.103	Pernambuco	55490
AS32748 Steadfast	Pompano Beach	United States	170.10.160.7	Florida	33071
AS714 Apple Inc.	Cupertino	United States	17.252.181.158	California	95014
AS36351 SoftLayer Technologies Inc.	Koror	Palau	169.48.126.10	Koror	
AS36351 SoftLayer Technologies Inc.	Ashburn	United States	169.45.228.231	Virginia	20147
AS299 University of California, Irvine	Irvine	United States	169.234.220.233	California	92697
AS4760 PCCW Limited	City of Victoria	Hong Kong	168.70.33.82	Central and Western District	
AS11377 SendGrid, Inc.	Denver	United States	168.245.95.24	Colorado	80202
AS264887 mads provedor de acesso de telecomunicações	Tangua	Brazil	168.227.185.151	Rio de Janeiro	24890
AS6057 Administracion Nacional de Telecomunicaciones	Montevideo	Uruguay	167.62.49.60	Departamento de Montevideo	11700
AS22394 Cellco Partnership DBA Verizon Wireless	Des Moines	United States	166.247.215.246	Iowa	
AS23655 Snap Internet Limited	Tauranga	New Zealand	165.84.56.82	Bay of Plenty	3110
AS47536 Global IP Exchange	Tallinn	Estonia	165.231.162.105	Harjumaa	
AS3561 Savvis	Sutton Coldfield	United Kingdom	165.193.178.202	England	B73
AS3512 Emory University	Atlanta	United States	163.246.163.101	Georgia	30322
	Charlotte	United States	163.123.241.206	North Carolina	28262

AS26484 HOSTSPACE NETWORKS LLC	Rowland Heights	United States	162.251.93.221	California	
AS20013 CyrusOne LLC	Provo	United States	162.241.247.182	Utah	84606
AS3816 COLOMBIA TELECOMUNICACIONES S.A. ESP	Bogotá (Teusaquillo)	Colombia	161.18.124.227	Bogota D.C.	
AS137 Consortium GARR	Parma	Italy	160.78.32.2	Emilia-Romagna	43100
AS6713 Itissalat Al-MAGHRIB	Casablanca	Morocco	160.170.15.132	Casablanca-Settat	
AS41789 LLC Teledyne Systems Limited	Blagoveshchensk	Russia	159.255.3.87	Amurskaya Oblast'	675000
AS201341 Tesonet Ltd	Belgrade	Serbia	159.180.3.120	Belgrade	
AS19994 Rackspace Ltd.	San Francisco	United States	159.135.224.242	California	94105
AS36351 SoftLayer Technologies Inc.	Amsterdam	Netherlands	159.122.21.116	North Holland	
AS224 UNINETT AS	Stjordal	Norway	158.38.235.40	Nord-Trondelag Fylke	7506
AS2852 CESNET z.s.p.o.	Olomouc	Czechia	158.194.14.48	Olomoucky kraj	772 00
AS41750 Mega-Line Ltd.	Bishkek	Kyrgyzstan	158.181.250.136	Gorod Bishkek	
AS8473 Bahnhof Internet AB	Vetlanda	Sweden	158.174.13.171	Jönköping	574 00
AS205087 Correos Telecom, S.A.	Madrid	Spain	158.172.217.152	Madrid	28001
AS205087 Correos Telecom, S.A.	Madrid	Spain	158.172.170.44	Madrid	28001
AS40702 Clearwave Communications	Harrisburg	United States	157.185.70.225	Illinois	62946
AS23342 Unitedlayer, Inc.	Berkeley	United States	157.151.109.207	California	94704
AS134548 DXTL Tseung Kwan O Service	Los Angeles	United States	156.237.169.36	California	
AS8473 Bahnhof Internet AB	Spanga	Sweden	155.4.111.161	Stockholm	163 03
AS20115 Charter Communications	Newnan	United States	155.186.224.59	Georgia	30263
AS57731 DiViNetworks LTD.	Budapest	Hungary	154.84.155.245	Budapest	1012
AS327745 Wifibre South Africa	Johannesburg	South Africa	154.73.227.122	Gauteng	1619
AS37353 MacroLAN	Johannesburg	South Africa	154.195.71.194	Gauteng	2000
AS6713 Itissalat Al-MAGHRIB	Ouarzazate	Morocco	154.147.112.50	Draa-Tafilalet	
AS6713 Itissalat Al-MAGHRIB	Marrakesh	Morocco	154.145.63.212	Marrakesh-Safi	
AS4837 CHINA UNICOM China169 Backbone	Suzhou	China	153.34.68.159	Jiangsu	
AS4713 NTT Communications Corporation	Wako	Japan	153.232.137.181	Saitama	351-0111

AS1267 Wind Telecomunicazioni SpA	Montefano	Italy	151.76.136.181	The Marches	62010
AS1267 Wind Telecomunicazioni SpA	Mestre	Italy	151.49.107.105	Veneto	30175
AS1267 Wind Telecomunicazioni SpA	Prato	Italy	151.40.193.82	Tuscany	59100
AS30855 Tele-plus LLC	Lyantor	Russia	151.252.83.191	Khanty-Mansia	628449
AS1267 Wind Telecomunicazioni SpA	Rome	Italy	151.24.251.4	Latium	00134
AS5607 Sky UK Limited	Aberdeen	United Kingdom	151.231.238.133	Scotland	AB11
AS5607 Sky UK Limited	Basingstoke	United Kingdom	151.231.153.179	England	RG21
AS5607 Sky UK Limited	Guildford	United Kingdom	151.231.144.206	England	GU4
AS5607 Sky UK Limited	Pontypridd	United Kingdom	151.230.153.76	Wales	CF37
AS5607 Sky UK Limited	Leicester	United Kingdom	151.225.102.19	England	LE1
AS5607 Sky UK Limited	Rotherham	United Kingdom	151.224.8.10	England	S65
AS5607 Sky UK Limited	Blackpool	United Kingdom	151.224.110.145	England	FY1
AS39651 Com Hem AB	Göteborg	Sweden	151.177.12.43	Västra Götaland	400 12
AS16276 OVH SAS	Montreal	Canada	149.56.172.141	Quebec	H3A
AS16276 OVH SAS	Ottawa	Canada	149.56.155.161	Ontario	J9H
AS16276 OVH SAS	Montreal	Canada	149.56.101.7	Quebec	H3A
AS680 Verein zur Foerderung eines Deutschen Forschungsnetzes e.V.	Magdeburg	Germany	149.203.55.24	Saxony-Anhalt	39126
AS16276 OVH SAS	Clichy-sous-Bois	France	149.202.216.6	Île-de-France	
AS16276 OVH SAS	Bourlens (France)	France	149.202.130.163	Nouvelle-Aquitaine	
AS57141 TELWAN SAS	L'Isle-sur-le-Doubs	France	149.154.87.123	Bourgogne-Franche-Comte	25250
AS8386 Vodafone Net İletişim Hizmetleri Anonim Şirketi	Maslak	Turkey	149.140.112.62	Istanbul	
AS8386 Vodafone Net İletişim Hizmetleri Anonim Şirketi	Izmir	Turkey	149.0.177.130	Izmir	35660
AS12066 ALTICE DOMINICANA S.A.	Santo Domingo	Dominican Republic	148.103.22.123	Nacional	10206
AS9198 JSC Kazakhtelecom	Aktau	Kazakhstan	147.30.207.118	Mangistauskaya Oblast'	
AS2852 CESNET z.s.p.o.	Prague	Czechia	147.231.11.19	Hlavní město Praha	182 00
AS4788 TM Net, Internet Service Provider	Johor Bahru	Malaysia	147.158.205.38	Johor	80400
AS786 Jisc Services Limited	London (Holborn Hall)	United Kingdom	146.97.136.185	England	

AS3209 Vodafone GmbH	Mönchengladbach	Germany	146.60.59.181	North Rhine-Westphalia	41065
AS3209 Vodafone GmbH	Duisburg	Germany	146.60.151.173	North Rhine-Westphalia	47051
AS1836 green.ch AG	Basel	Switzerland	146.228.112.56	Basel-City	4001
AS19653 CTS Communications Corp	Kalamazoo	United States	146.113.145.220	Michigan	49006
AS5483 Magyar Telekom plc.	Teglas	Hungary	145.236.204.135	Hajdú-Bihar	4243
AS61754 Neide de Magalhães - ME	Acaiaca	Brazil	143.202.53.114	Minas Gerais	35438
AS263668 NET4YOU INTERNET SOLUTION	Sao Jose de Mipibu	Brazil	143.137.78.129	Rio Grande do Norte	
AS3455 Liberty Mutual Group	Portsmouth	United States	143.115.221.9	New Hampshire	
AS16276 OVH SAS	Montreal	Canada	142.4.221.81	Quebec	H3A
AS46606 Unified Layer	Provo	United States	142.4.10.221	Utah	84606
AS12271 Time Warner Cable Internet LLC	New York	United States	142.255.34.31	New York	10040
AS7122 MTS Inc.	Winnipeg	Canada	142.161.88.14	Manitoba	R3T
AS20001 Time Warner Cable Internet LLC	Yuma	United States	142.11.125.45	Arizona	85364
AS13576 SOUTH DAKOTA NETWORK	Mitchell	United States	142.0.11.130	South Dakota	57301
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Athens (Ampelokipoi)	Greece	141.237.79.2	Attica	
AS3329 Vodafone-panafon Hellenic Telecommunications Company SA	Athens	Greece	141.237.190.181	Attica	
AS394769 University of Michigan - Flint	Flint	United States	141.216.249.32	Michigan	48502
AS51696 Antagonist B.V.	Enschede (Bedrijfsterreinen Enschede-West)	Netherlands	141.138.168.100	Overijssel	
AS6848 Telenet BVBA	Eeklo	Belgium	141.134.157.73	Flanders	9900
AS26996 RYERSON UNIVERSITY	Toronto	Canada	141.117.113.130	Ontario	M5B
AS13335 Cloudflare Inc	London	United Kingdom	141.101.70.130	England	EC2V
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.89.118.78	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.82.223.1	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.64.48.31	Gyeonggi-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	14.63.200.214	Seoul	

AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	14.58.171.242	Gyeonggi-do	
AS134772 CHINANET Guangdong province Dongguan MAN network	Dongguan	China	14.220.244.26	Guangdong	
AS45899 VNPT Corp	Hanoi	Vietnam	14.170.198.188	Thanh Pho Ha Noi	
AS4816 China Telecom (Group)	Guangzhou	China	14.17.18.237	Guangdong	
AS4134 No.31,Jin-rong Street	Chongqing	China	14.111.30.154	Chongqing	
AS4134 No.31,Jin-rong Street	Chongqing	China	14.107.70.21	Chongqing	
AS14061 DigitalOcean, LLC	Bengaluru	India	139.59.64.230	Karnataka	560100
AS14061 DigitalOcean, LLC	London	United Kingdom	138.68.131.107	England	EC2V
AS7575 Australian Academic and Reasearch Network (AARNet)	Ultimo	Australia	138.44.26.52	New South Wales	2007
AS55286 B2 Net Solutions Inc.	Stoney Creek	Canada	138.128.67.4	Ontario	L8E
AS133275 Gigantic Infotel Pvt Ltd	Sonipat	India	137.59.241.227	Haryana	131001
AS16591 Google Fiber Inc.	Lenexa	United States	136.63.34.223	Kansas	66215
AS16591 Google Fiber Inc.	Raleigh	United States	136.56.3.94	North Carolina	27609
AS7065 Sonoma Interconnect	Santa Rosa	United States	135.180.195.171	California	95407
AS7065 Sonoma Interconnect	Santa Rosa	United States	135.180.187.94	California	95407
AS3671 SLAC National Accelerator Laboratory	Menlo Park	United States	134.79.168.73	California	94025
AS46573 Global Frag Networks	Los Angeles	United States	134.73.228.200	California	90012
AS47610 RWTH Aachen University	Aachen	Germany	134.61.253.44	North Rhine-Westphalia	52068
AS47610 RWTH Aachen University	Aachen	Germany	134.61.252.25	North Rhine-Westphalia	52068
AS29562 Kabel BW	Stuttgart	Germany	134.3.190.222	Baden-Württemberg Region	70173
AS13490 Buckeye Cablevision, Inc.	Toledo	United States	134.228.196.231	Ohio	43612
AS34011 Host Europe GmbH	Hoest	Germany	134.119.86.51	North Rhine-Westphalia	47652
AS15943 wilhelm.tel GmbH	Ostermundigen	Switzerland	134.101.200.70	Bern	
AS195 San Diego Supercomputer Center	La Jolla	United States	132.249.106.172	California	92093
AS26496 GoDaddy.com, LLC	Scottsdale	United States	132.148.103.2	Arizona	85260

AS265996 PAULO HENRIQUE FREITAS SILVEIRA - ME	Poco da Pedra	Brazil	131.196.233.63	Ceara	
AS196954 Epcan GmbH	Stadtlohn	Germany	130.255.123.94	North Rhine-Westphalia	48703
AS13124 Mobitel Ead	Sofia	Bulgaria	130.204.49.115	Sofia-Capital	1000
AS1942 Renater	Grenoble	France	130.190.104.213	Auvergne-Rhone-Alpes	38000
AS25374 ESCOM Ltd. - Haskovo	Svilengrad	Bulgaria	130.185.231.71	Haskovo	6500
AS680 Verein zur Foerderung eines Deutschen Forschungsnetzes e.V.	Munich	Germany	130.183.224.178	Bavaria	80796
AS174 Cogent Communications	Chiclana de la Frontera	Spain	130.117.91.125	Andalusia	11130
AS8075 Microsoft Corporation	Boydton	United States	13.90.197.152	Virginia	23917
AS16509 Amazon.com, Inc.	Seattle	United States	13.33.70.36	Washington	98109
AS2914 NTT America, Inc.	El Segundo	United States	129.250.194.69	California	90245
AS224 UNINETT AS	Tromsø	Norway	129.242.252.88	Troms Fylke	9024
AS224 UNINETT AS	Trondheim	Norway	129.241.10.173	Sor-Trondelag Fylke	7003
AS224 UNINETT AS	Oslo	Norway	129.240.42.165	Oslo County	0001
AS2841 Chalmers University of Technology	Gothenburg	Sweden	129.16.63.245	Västra Götaland	400 12
AS36444 NEXCESS.NET L.L.C.	Austin	United States	129.121.35.222	Texas	78754
AS3216 PVimpelCom	Krasnodar	Russia	128.74.113.6	Krasnodarskiy Kray	350000
AS2514 NTT PC Communications, Inc.	Kofu	Japan	128.28.231.115	Yamanashi	400-0031
AS3676 University of Iowa	Iowa City	United States	128.255.170.231	Iowa	52242
AS92 Clarkson University	Potsdam	United States	128.153.187.40	New York	13676
AS21859 Zenlayer Inc	Diamond Bar	United States	128.14.36.108	California	91765
AS21859 Zenlayer Inc	Diamond Bar	United States	128.14.11.118	California	91765
AS17676 Softbank BB Corp.	Fukuoka	Japan	126.207.29.219	Fukuoka	812-0044
AS17676 Softbank BB Corp.	Kawaguchi	Japan	126.203.254.242	Saitama	332-0015
AS4837 CHINA UNICOM China169 Backbone	Nanyang	China	125.45.99.204	Henan	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	125.43.221.149	Henan	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	125.42.80.11	Henan	
AS4808 China Unicom Beijing Province Network	Beijing	China	125.34.228.227	Beijing	
AS17858 LG POWERCOMM	Busan	Republic of Korea	125.184.70.211	Busan	
AS17858 LG POWERCOMM	Boseong	Republic of Korea	125.182.118.82	Jeollanam-do	

AS17858 LG POWERCOMM	Incheon	Republic of Korea	125.180.248.4	Incheon	
AS17858 LG POWERCOMM	Incheon	Republic of Korea	125.180.167.151	Incheon	
AS4766 Korea Telecom	Seoul (Deungchon-dong)	Republic of Korea	125.159.250.152	Seoul	
AS4766 Korea Telecom	Goyang-si	Republic of Korea	125.148.231.115	Gyeonggi-do	
AS4766 Korea Telecom	Hwaseong-si (Hyangnam-eup)	Republic of Korea	125.130.71.230	Gyeonggi-do	
AS4134 No.31,Jin-rong Street	Hangzhou	China	125.121.17.181	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	125.118.30.189	Zhejiang	
AS4134 No.31,Jin-rong Street	Ningbo	China	125.115.182.129	Zhejiang	
AS4134 No.31,Jin-rong Street	Dongyang	China	125.113.86.87	Zhejiang	
AS4808 China Unicom Beijing Province Network	Beijing	China	124.64.253.106	Beijing	
AS17858 LG POWERCOMM	Daejeon	Republic of Korea	124.53.178.150	Daejeon	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	124.49.95.87	Seoul	
AS9269 Hong Kong Broadband Network Ltd.	City of Victoria	Hong Kong	124.244.24.160	Central and Western District	
AS4134 No.31,Jin-rong Street	Yongzhou	China	124.229.204.118	Hunan	
AS4134 No.31,Jin-rong Street	Danzhou	China	124.225.157.156	Fujian	
AS9790 CallPlus Services Limited	Massey	New Zealand	124.197.17.66	Auckland	0656
AS4837 CHINA UNICOM China169 Backbone	Binzhou	China	124.131.155.86	Shandong	
AS4847 China Networks Inter-Exchange	Beijing	China	124.126.168.84	Beijing	
AS4134 No.31,Jin-rong Street	Ürümqi	China	124.117.172.250	Xinjiang	
AS9924 Taiwan Fixed Network, Telco and Network Service Provider.	Taichung	Taiwan	124.11.241.254	Taichung City	
AS9299 Philippine Long Distance Telephone Company	Malolos	Philippines	124.104.185.209	Central Luzon	3000
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	123.56.42.172	Zhejiang	
AS45899 VNPT Corp	Thanh Hóa	Vietnam	123.27.127.137	Tỉnh Thanh Hoa	

AS9845 CJ Hello Co., Ltd.	Busan	Republic of Korea	123.248.44.204	Busan	
AS4134 No.31,Jin-rong Street	Fushun	China	123.246.92.54	Liaoning	
AS45899 VNPT Corp	Hanoi	Vietnam	123.24.200.224	Thanh Pho Ha Noi	
AS45899 VNPT Corp	Hoc Mon	Vietnam	123.21.229.59	Ho Chi Minh City	
AS45090 Shenzhen Tencent Computer Systems Company Limited	Beijing	China	123.206.16.100	Beijing	
AS18049 Taiwan Infrastructure Network Technologie	Taichung	Taiwan	123.205.118.88	Taichung City	
AS9924 Taiwan Fixed Network, Telco and Network Service Provider.	Taipei	Taiwan	123.194.200.99	Taipei City	
AS38841 kbro CO. Ltd.	Taipei	Taiwan	123.192.221.186	Taipei City	
AS4134 No.31,Jin-rong Street	Hebei	China	123.181.45.130	Hebei	
AS4134 No.31,Jin-rong Street	Harbin	China	123.165.34.22	Heilongjiang	
AS4134 No.31,Jin-rong Street	Zhengzhou	China	123.162.85.164	Henan	
AS4837 CHINA UNICOM China169 Backbone	Yuzhong Chengguanzhen	China	123.147.83.13	Gansu	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	123.132.51.214	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Kunshan	China	122.97.152.3	Jiangsu	
AS132165 Connect Communications	Karachi	Pakistan	122.8.201.212	Sindh	12311
AS4134 No.31,Jin-rong Street	Jinan	China	122.6.246.240	Shandong	
AS17858 LG POWERCOMM	Seoul	Republic of Korea	122.43.2.103	Seoul	
AS4134 No.31,Jin-rong Street	Huzhou	China	122.230.225.175	Zhejiang	
AS4134 No.31,Jin-rong Street	Quzhou	China	122.227.87.78	Zhejiang	
AS4837 CHINA UNICOM China169 Backbone	Nanjing	China	122.193.195.47	Jiangsu	
AS24560 Bharti Airtel Ltd., Telemedia Services	New Delhi	India	122.162.48.34	National Capital Territory of Delhi	
AS24560 Bharti Airtel Ltd., Telemedia Services	Delhi	India	122.160.128.144	National Capital Territory of Delhi	110024
AS4837 CHINA UNICOM China169 Backbone	Harbin	China	122.157.2.97	Heilongjiang	
AS4837 CHINA UNICOM China169 Backbone	Harbin	China	122.157.136.4	Heilongjiang	

AS9790 CallPlus Services Limited	Auckland	New Zealand	121.99.78.97	Auckland	0626
AS9790 CallPlus Services Limited	Auckland	New Zealand	121.98.186.210	Auckland	1023
AS17705 InSPire Net Ltd	Kakatahi	New Zealand	121.79.202.183	Manawatu-Wanganui	4573
AS9506 Singtel Fibre Broadband	Singapore	Singapore	121.7.97.51	Central Singapore Community Development Council	
AS9506 Singtel Fibre Broadband	Singapore	Singapore	121.7.217.64	Central Singapore Community Development Council	
AS4134 No.31,Jin-rong Street	Shenzhen	China	121.34.183.129	Guangdong	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	121.24.58.195	Hebei	
AS4134 No.31,Jin-rong Street	Wuxi	China	121.238.79.121	Jiangsu	
AS4134 No.31,Jin-rong Street	Kunshan	China	121.227.116.208	Jiangsu	
AS38372 FoShan RuiJiang Science and Tech Ltd.	Guangzhou	China	121.201.2.246	Guangdong	
AS4766 Korea Telecom	Seoul	Republic of Korea	121.186.119.87	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	121.166.43.1	Seoul	
AS4766 Korea Telecom	Seosan-si (Dongmun-dong)	Republic of Korea	121.159.211.22	Chungcheongnam-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	121.157.72.17	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	121.157.23.230	Seoul	
AS4766 Korea Telecom	Gwangju	Republic of Korea	121.148.74.153	Gwangju	
AS4766 Korea Telecom	Yangsan	Republic of Korea	121.145.201.57	Gyeongsangnam-do	
AS4766 Korea Telecom	Seoul	Republic of Korea	121.142.232.206	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	121.136.97.190	Seoul	
AS4766 Korea Telecom	Seoul	Republic of Korea	121.134.119.61	Seoul	
AS2516 KDDI CORPORATION	Rikujo Jieitai Nerima Chutonchi	Japan	121.108.132.1	Tokyo	176-0001
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	120.78.214.91	Zhejiang	
AS9762 HYUNDAI COMMUNICATIONS & NETWORK	Seoul	Republic of Korea	120.50.74.36	Seoul	

AS4837 CHINA UNICOM China169 Backbone	Hebei	China	120.5.148.55	Hebei	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	120.25.132.164	Zhejiang	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	120.24.4.110	Zhejiang	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	120.15.170.63	Hebei	
AS7018 AT&T; Services, Inc.	Hudsonville	United States	12.251.154.222	Michigan	49426
AS40656 Communications Etc., Inc.	New Braunfels	United States	12.183.155.235	Texas	78130
AS7018 AT&T; Services, Inc.	York	United States	12.167.144.226	Pennsylvania	17407
AS7018 AT&T; Services, Inc.	New Lebanon	United States	12.161.115.185	Ohio	45345
AS4134 No.31,Jin-rong Street	Chongqing	China	119.86.81.182	Chongqing	
AS18318 CJ Hello Co., Ltd.	Suncheon-si (Gijeoguidoseogwan 1-gil)	Republic of Korea	119.75.144.110	Jeollanam-do	
AS4837 CHINA UNICOM China169 Backbone	Neijiang	China	119.62.108.251	Sichuan	
AS4837 CHINA UNICOM China169 Backbone	Cangzhou	China	119.251.138.226	Hebei	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	119.222.102.135	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	119.219.2.112	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	119.216.62.207	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	119.213.69.53	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	119.212.154.77	Gyeonggi-do	
AS4766 Korea Telecom	Gunpo	Republic of Korea	119.204.44.103	Gyeonggi-do	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	119.188.193.22	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	119.188.142.143	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Zaozhuang	China	119.186.231.221	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Dezhou	China	119.184.50.57	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Linqing	China	119.178.61.226	Shandong	

AS4837 CHINA UNICOM China169 Backbone	Fuxin	China	119.114.243.160	Liaoning	
AS4134 No.31,Jin-rong Street	Guiyang	China	119.0.237.41	Guizhou	
AS4766 Korea Telecom	Namyangju	Republic of Korea	118.63.24.202	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	118.54.217.56	Gyeonggi-do	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	118.54.208.215	Gyeonggi-do	
AS4134 No.31,Jin-rong Street	Zhangjiajie	China	118.254.91.89	Hunan	
AS2527 So-net Entertainment Corporation	Yokohama	Japan	118.241.29.29	Kanagawa	231-0005
AS2527 So-net Entertainment Corporation	Rikujo Jieitai Nerima Chutonchi	Japan	118.241.181.118	Tokyo	176-0001
AS9924 Taiwan Fixed Network, Telco and Network Service Provider.	Pingtung City	Taiwan	118.232.182.231	Pingtung	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	118.223.129.177	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	118.221.208.151	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Nanchang	China	118.212.98.253	Jiangxi	
AS4739 Internode Pty Ltd	Kellyville	Australia	118.211.148.247	New South Wales	2155
AS23969 TOT Public Company Limited	Bangkok	Thailand	118.173.105.189	Bangkok	
AS18419 DaDa Broadband LTD.	Taipei	Taiwan	118.150.135.170	Taipei City	
AS18419 DaDa Broadband LTD.	Taipei	Taiwan	118.150.114.181	Taipei City	
AS4134 No.31,Jin-rong Street	Chengdu	China	118.122.106.3	Sichuan	
AS4713 NTT Communications Corporation	Wakayama	Japan	118.12.138.150	Wakayama	640-8269
AS4837 CHINA UNICOM China169 Backbone	Tianjin	China	117.9.113.97	Tianjin	
AS4134 No.31,Jin-rong Street	Suzhou	China	117.80.200.147	Jiangsu	
AS4808 China Unicom Beijing Province Network	Shanghai	China	117.50.2.152	Shanghai	
AS4134 No.31,Jin-rong Street	Jiujiang	China	117.45.159.65	Jiangxi	
AS4134 No.31,Jin-rong Street	Xi'an	China	117.32.118.42	Shaanxi	
AS9829 National Internet Backbone	Karaikudi	India	117.248.3.18	Tamil Nadu	630001

AS9829 National Internet Backbone	Madurai	India	117.222.159.6	Tamil Nadu	625001
AS9829 National Internet Backbone	Ranchi	India	117.211.49.161	State of Jharkhand	
AS9829 National Internet Backbone	Tirur	India	117.203.43.202	Kerala	676101
AS9829 National Internet Backbone	Pune	India	117.195.96.116	Maharashtra	411001
AS9829 National Internet Backbone	Kozhikode	India	117.194.171.247	Kerala	673573
AS9808 Guangdong Mobile Communication Co.Ltd.	Beijing (Xicheng Qu)	China	117.166.137.171	Beijing	
AS9808 Guangdong Mobile Communication Co.Ltd.	Ganzhou	China	117.165.0.244	Jiangxi	
AS17849 Tbroad Ginam Broadcating Co., Ltd.	Suwon-si	Republic of Korea	117.123.148.102	Gyeonggi-do	
AS24086 Viettel Corporation	Da Nang	Vietnam	116.98.161.152	Thanh Pho GJa Nang	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Beijing	China	116.62.64.60	Beijing	
AS4134 No.31,Jin-rong Street	Shenzhen	China	116.25.119.243	Guangdong	
AS9506 Singtel Fibre Broadband	Singapore	Singapore	116.14.98.180	Central Singapore Community Development Council	
AS7602 Saigon Postel Corporation	Ho Chi Minh City	Vietnam	116.118.59.44	Ho Chi Minh City	
AS4837 CHINA UNICOM China169 Backbone	Ordos	China	116.112.201.168	Inner Mongolia Autonomous Region	
AS24086 Viettel Corporation	Da Nang	Vietnam	116.110.33.215	Thanh Pho GJa Nang	
AS24086 Viettel Corporation	Tay Ninh	Vietnam	116.106.219.155	Tinh Tay Ninh	
AS3786 LG DACOM Corporation	Seoul	Republic of Korea	115.94.197.233	Seoul	
AS4766 Korea Telecom	Mungyeong-si	Republic of Korea	115.9.176.8	Gyeongsangbuk-do	
AS7552 Viettel Group	Ho Chi Minh City	Vietnam	115.73.234.104	Ho Chi Minh City	
AS38700 SMILESERV	Seoul (Gasan digital 1-ro)	Republic of Korea	115.68.1.9	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	115.61.97.118	Henan	
AS4837 CHINA UNICOM China169 Backbone	Zhengzhou	China	115.61.245.188	Henan	
AS4837 CHINA UNICOM China169 Backbone	Kaifeng	China	115.61.107.4	Henan	
AS4837 CHINA UNICOM China169 Backbone	Shanghai	China	115.58.91.115	Shanghai	

AS4837 CHINA UNICOM China169 Backbone	Hangzhou	China	115.46.241.188	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	115.238.80.249	Zhejiang	
AS4134 No.31,Jin-rong Street	Pinghu	China	115.227.225.210	Zhejiang	
AS4134 No.31,Jin-rong Street	Shaoxing	China	115.225.251.107	Zhejiang	
AS4134 No.31,Jin-rong Street	Wenzhou	China	115.218.174.81	Zhejiang	
AS4134 No.31,Jin-rong Street	Ningbo	China	115.214.248.235	Zhejiang	
AS4134 No.31,Jin-rong Street	Wenling	China	115.201.172.23	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	115.198.205.208	Zhejiang	
AS4134 No.31,Jin-rong Street	Hangzhou	China	115.196.234.162	Zhejiang	
AS4766 Korea Telecom	Busan (Bansong 2(i)-dong)	Republic of Korea	115.15.183.98	Busan	
AS4766 Korea Telecom	Seongnam-si (Buljeong-ro)	Republic of Korea	115.15.16.8	Gyeonggi-do	
AS4788 TM Net, Internet Service Provider	Petaling Jaya	Malaysia	115.134.154.231	Selangor	47301
AS4766 Korea Telecom	Namyangju (Toegyewon-myeon)	Republic of Korea	115.1.127.69	Gyeonggi-do	
AS4812 China Telecom (Group)	Shanghai	China	114.80.62.5	Shanghai	
AS3462 Data Communication Business Group	Taichung	Taiwan	114.35.73.154	Taichung City	
AS4808 China Unicom Beijing Province Network	Beijing	China	114.246.125.245	Beijing	
AS4134 No.31,Jin-rong Street	Suqian	China	114.239.72.229	Jiangsu	
AS4134 No.31,Jin-rong Street	Nanjing	China	114.233.193.92	Jiangsu	
AS4134 No.31,Jin-rong Street	Nantong	China	114.231.13.98	Jiangsu	
AS4134 No.31,Jin-rong Street	Wuxi	China	114.223.158.186	Jiangsu	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	114.204.208.169	Seoul	
AS9318 SK Broadband Co Ltd	Incheon	Republic of Korea	114.200.80.206	Incheon	
AS4713 NTT Communications Corporation	Kochi	Japan	114.173.214.7	Kochi	780-0850

AS17762 Tata Teleservices Maharashtra Ltd	Thane	India	114.143.77.115	Maharashtra	400601
AS4134 No.31,Jin-rong Street	Huangshan City	China	114.104.138.193	Anhui	
AS4134 No.31,Jin-rong Street	Huainan	China	114.101.233.111	Anhui	
AS4134 No.31,Jin-rong Street	Shenzhen	China	113.86.151.118	Guangdong	
AS4134 No.31,Jin-rong Street	Lhasa	China	113.63.198.28	Tibet	
AS4134 No.31,Jin-rong Street	Xiangtan	China	113.245.68.215	Hunan	
AS4134 No.31,Jin-rong Street	Changsha	China	113.242.188.113	Hunan	
AS4134 No.31,Jin-rong Street	Yiyang	China	113.240.27.121	Hunan	
AS4837 CHINA UNICOM China169 Backbone	Liaoyang	China	113.237.217.156	Liaoning	
AS24139 Huashu media&Network; Limited	Hangzhou	China	113.215.49.52	Zhejiang	
AS4837 CHINA UNICOM China169 Backbone	Xi'an	China	113.201.125.94	Shaanxi	
AS45899 VNPT Corp	Ho Chi Minh City	Vietnam	113.172.188.184	Ho Chi Minh City	
AS45899 VNPT Corp	Hanoi	Vietnam	113.171.254.149	Thanh Pho Ha Noi	
AS4134 No.31,Jin-rong Street	Jining	China	113.120.151.177	Shandong	
AS56046 China Mobile communications corporation	Nanjing	China	112.4.53.239	Jiangsu	
AS4837 CHINA UNICOM China169 Backbone	Dongying	China	112.243.98.68	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Dezhou	China	112.242.9.36	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jinan	China	112.241.187.95	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Zibo	China	112.240.116.74	Shandong	
AS56046 China Mobile communications corporation	Dongtai	China	112.24.122.75	Jiangsu	
AS4837 CHINA UNICOM China169 Backbone	Linyi	China	112.233.63.111	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Zibo	China	112.227.87.154	Shandong	
AS4837 CHINA UNICOM China169 Backbone	Jimo	China	112.225.10.72	Shandong	
AS3786 LG DACOM Corporation	Seoul (Hangang-daero)	Republic of Korea	112.218.166.92	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Chengdu	China	112.194.60.88	Sichuan	

AS4766 Korea Telecom	Daegu	Republic of Korea	112.173.138.11	Daegu	
AS4766 Korea Telecom	Busan	Republic of Korea	112.162.183.112	Busan	
AS17858 LG POWERCOMM	Seoul (Hangang-daero)	Republic of Korea	112.144.103.135	Seoul	
AS18318 CJ Hello Co., Ltd.	Suncheon (Gijeoguidoseogwan 1-gil)	Republic of Korea	112.140.216.4	Jeollanam-do	
AS4837 CHINA UNICOM China169 Backbone	Beijing	China	112.122.229.28	Beijing	
AS132165 Connect Communications	Karachi	Pakistan	111.88.182.195	Sindh	12311
AS9808 Guangdong Mobile Communication Co.Ltd.	Wuhu	China	111.38.175.229	Anhui	
AS3462 Data Communication Business Group	Taipei	Taiwan	111.250.203.143	Taipei City	
AS9808 Guangdong Mobile Communication Co.Ltd.	Xi'an	China	111.20.183.174	Shaanxi	
AS4808 China Unicom Beijing Province Network	Beijing	China	111.199.234.150	Beijing	
AS4808 China Unicom Beijing Province Network	Beijing	China	111.199.173.229	Beijing	
AS4134 No.31,Jin-rong Street	Wuhan	China	111.175.225.161	Hubei	
AS4134 No.31,Jin-rong Street	Yinchuan	China	111.112.31.184	Ningsia Hui Autonomous Region	
AS4134 No.31,Jin-rong Street	Zongyang	China	110.81.90.7	Anhui	
AS9318 SK Broadband Co Ltd	Seoul (Toegy-e-ro)	Republic of Korea	110.8.85.78	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Qinhuangdao	China	110.255.247.200	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	110.247.21.43	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	110.246.87.90	Hebei	
AS4837 CHINA UNICOM China169 Backbone	Shijiazhuang	China	110.240.55.150	Hebei	
AS4134 No.31,Jin-rong Street	Taiyuanshi	China	110.177.46.198	Shanxi	
AS4134 No.31,Jin-rong Street	Xining	China	110.166.49.232	Qinghai	
AS6830 Liberty Global Operations B.V.	Siegen	Germany	109.91.80.88	North Rhine-Westphalia	57076
AS6830 Liberty Global Operations B.V.	Pulheim	Germany	109.90.78.194	North Rhine-Westphalia	50259
AS15557 SFR SA	Nantes	France	109.9.169.5	Pays de la Loire	44000
AS15557 SFR SA	Renaze	France	109.31.46.61	Pays de la Loire	53800

AS15557 SFR SA	Meaux	France	109.30.224.64	Île-de-France	77100
AS15557 SFR SA	Boulogne-Billancourt	France	109.3.54.65	Île-de-France	
AS15557 SFR SA	Boulogne-Billancourt	France	109.3.54.114	Île-de-France	
AS15557 SFR SA	Saint-Pierre-d'Albigny	France	109.29.127.173	Auvergne-Rhone-Alpes	73250
AS15557 SFR SA	Nivillac	France	109.27.187.71	Brittany	56130
AS6830 Liberty Global Operations B.V.	Dublin	Ireland	109.255.93.182	Leinster	D02
AS15557 SFR SA	Toulouse	France	109.25.207.91	Occitanie	31000
AS50292 Access UK Ltd	Brighton	United Kingdom	109.233.48.34	England	BN1
AS197071 Dennis Rainer Warnholz trading as active-servers.com	Flintsbach am Inn	Germany	109.230.229.16	Bavaria	
AS21032 TELTA Citynetz GmbH	Schwedt (Oder)	Germany	109.226.155.131	Brandenburg	16303
AS15557 SFR SA	Narbonne	France	109.21.190.168	Occitanie	11100
AS15557 SFR SA	Cluses	France	109.20.115.6	Auvergne-Rhone-Alpes	74300
AS35191 Asta-net S.A.	Szamocin	Poland	109.199.92.214	Greater Poland	64-820
AS56377 JSC ER-Telecom Holding	Magnitogorsk	Russia	109.195.218.18	Chelyabinsk	455004
AS29562 Kabel BW	Radolfzell	Germany	109.192.208.114	Baden-Württemberg Region	78315
AS8369 Intersvyaz-2 JSC	Chelyabinsk	Russia	109.191.138.31	Chelyabinsk	
AS15557 SFR SA	Villemoyenne	France	109.18.104.252	Grand-Est	10260
AS3223 Voxility S.R.L.	Frankfurt am Main	Germany	109.163.239.230	Hesse	09039
AS15895 Kyivstar PJSC	Rivne	Ukraine	109.162.26.121	Rivnens'ka Oblast'	23425
AS15557 SFR SA	Annemasse	France	109.16.244.220	Auvergne-Rhone-Alpes	74100
AS5432 Proximus NV	Brussels	Belgium	109.134.132.189	Brussels Capital	1140
AS20632 PJSC MegaFon	St Petersburg	Russia	109.124.96.55	St.-Petersburg	190817
AS21415 Internet Group EOOD	Stara Zagora	Bulgaria	109.121.202.171	Oblast Stara Zagora	6000
AS9050 Telekom Romania Communication S.A	Bucharest	Romania	109.100.161.67	Bucuresti	051973
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Manhasset	United States	108.54.78.2	New York	11030
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Irvington	United States	108.53.67.171	New Jersey	07111
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Perkasie	United States	108.52.56.19	Pennsylvania	18944
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Springfield	United States	108.51.96.140	Virginia	22153

AS701 MCI Communications Services, Inc. d/b/a Verizon Business	New Providence	United States	108.5.136.39	New Jersey	07974
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Bowie	United States	108.45.36.122	Maryland	20721
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Richmond	United States	108.4.25.78	Virginia	23294
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Richmond	United States	108.4.14.31	Virginia	23231
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Newport News	United States	108.39.43.3	Virginia	23607
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Woodbridge	United States	108.31.35.70	Virginia	22193
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Smithtown	United States	108.27.78.55	New York	11787
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Newton	United States	108.26.191.11	Massachusetts	02458
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Needham	United States	108.20.124.249	Massachusetts	02492
AS33363 BRIGHT HOUSE NETWORKS, LLC	Palm Harbor	United States	108.190.60.103	Florida	34683
AS33363 BRIGHT HOUSE NETWORKS, LLC	Orlando	United States	108.188.243.38	Florida	32810
AS20001 Time Warner Cable Internet LLC	Claremont	United States	108.184.179.121	California	91711
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Laurel	United States	108.18.133.5	Maryland	20723
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Broomall	United States	108.16.109.174	Pennsylvania	19008
AS7922 Comcast Cable Communications, LLC	Santa Clara	United States	107.3.158.145	California	95051
AS7018 AT&T; Services, Inc.	El Monte	United States	107.204.109.93	California	91732
AS7922 Comcast Cable Communications, LLC	Castle Rock	United States	107.2.189.136	Colorado	80108
AS3842 RamNode LLC	Atlanta	United States	107.191.127.97	Georgia	30305
AS174 Cogent Communications	Chicago	United States	107.177.92.57	Illinois	60604
AS18779 EGIHosting	San Jose	United States	107.165.175.72	California	95113
AS18779 EGIHosting	San Jose	United States	107.164.90.206	California	95113

AS40676 Psychz Networks	Walnut	United States	107.160.163.169	California	91789
AS33363 BRIGHT HOUSE NETWORKS, LLC	Orange City	United States	107.145.40.4	Florida	32763
AS10796 Time Warner Cable Internet LLC	Cleveland	United States	107.10.192.96	Ohio	44109
AS4134 No.31,Jin-rong Street	Kunming	China	106.59.203.59	Yunnan	
AS3786 LG DACOM Corporation	Seoul (Hangang-daero)	Republic of Korea	106.250.4.157	Seoul	
AS3786 LG DACOM Corporation	Seoul	Republic of Korea	106.250.235.97	Seoul	
AS3786 LG DACOM Corporation	Seoul	Republic of Korea	106.244.226.120	Seoul	
AS3786 LG DACOM Corporation	Namyangju	Republic of Korea	106.242.23.236	Gyeonggi-do	
AS24560 Bharti Airtel Ltd., Telemedia Services	New Delhi	India	106.212.182.204	National Capital Territory of Delhi	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	106.14.158.47	Zhejiang	
AS4134 No.31,Jin-rong Street	Yancheng	China	106.110.60.58	Jiangsu	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	106.11.45.34	Zhejiang	
AS6713 Itissalat Al-MAGHRIB	Rabat	Morocco	105.131.248.57	Rabat-Sale-Kenitra	
AS36947 Telecom Algeria	Ain Defla	Algeria	105.103.33.59	Ain Defla	44000
AS20940 Akamai International B.V.	Amsterdam	Netherlands	104.94.173.116	North Holland	1091
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	104.90.110.49	North Holland	1091
AS7843 Time Warner Cable Internet LLC	Cambridge	United States	104.87.154.48	Massachusetts	02142
AS20940 Akamai International B.V.	Amsterdam	Netherlands	104.85.65.45	North Holland	1091
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	104.82.138.134	North Holland	1091
AS20940 Akamai International B.V.	Cambridge	United States	104.74.246.131	Massachusetts	02142
AS7922 Comcast Cable Communications, LLC	Cambridge	United States	104.73.22.115	Massachusetts	02142
AS7018 AT&T; Services, Inc.	Alexandria	United States	104.7.61.1	Louisiana	71301
AS3257 GTT Communications Inc.	Cambridge	United States	104.69.13.101	Massachusetts	02142
AS7018 AT&T; Services, Inc.	Chula Vista	United States	104.57.124.134	California	91915

AS7018 AT&T; Services, Inc.	Hopkinsville	United States	104.53.229.82	Kentucky	42240
AS23393 ISPrime, Inc.	Weehawken	United States	104.37.179.57	New Jersey	07086
AS393442 United Electric Cooperative	Savannah	United States	104.37.164.157	Missouri	64485
AS20001 Time Warner Cable Internet LLC	Lynwood	United States	104.33.155.26	California	90262
AS13335 Cloudflare Inc	Montreal	Canada	104.27.67.190	Quebec	
AS13335 Cloudflare Inc	Montreal	Canada	104.25.242.216	Quebec	
AS13886 Cloud South	Wilmington	United States	104.238.2.7	Delaware	19801
AS5650 Frontier Communications of America, Inc.	Rochelle	United States	104.235.98.212	Illinois	61068
AS5650 Frontier Communications of America, Inc.	Arlington	United States	104.235.177.249	Washington	98223
AS22995 Xplornet Communications Inc.	Kingston	Canada	104.224.98.253	Ontario	K7M
AS46573 Global Frag Networks	Los Angeles	United States	104.223.181.151	California	90012
AS46573 Global Frag Networks	Los Angeles	United States	104.223.143.23	California	90012
AS8100 QuadraNet, Inc	Miami	United States	104.223.124.49	Florida	33132
AS40676 Psychz Networks	New York	United States	104.217.31.57	New York	10036
AS18978 Enzu Inc	Los Angeles	United States	104.202.22.16	California	90017
AS18978 Enzu Inc	Los Angeles	United States	104.202.168.17	California	90017
AS13335 Cloudflare Inc	Montreal	Canada	104.20.116.169	Quebec	
AS13335 Cloudflare Inc	Montreal	Canada	104.19.88.187	Quebec	
AS13335 Cloudflare Inc	Montreal	Canada	104.18.134.40	Quebec	
AS13335 Cloudflare Inc	Montreal	Canada	104.17.3.30	Quebec	
AS13335 Cloudflare Inc	Montreal	Canada	104.17.198.122	Quebec	
AS18978 Enzu Inc	Los Angeles	United States	104.151.12.28	California	90017
AS55286 B2 Net Solutions Inc.	Stoney Creek	Canada	104.144.86.97	Ontario	L8E
AS14061 DigitalOcean, LLC	Clifton	United States	104.131.2.119	New Jersey	07014
AS20940 Akamai International B.V.	Amsterdam	Netherlands	104.127.19.20	North Holland	1091
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	104.121.4.107	North Holland	1091
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	104.121.14.235	North Holland	1091
AS20940 Akamai International B.V.	Cambridge	United States	104.113.197.173	Massachusetts	02142
AS6453 TATA COMMUNICATIONS (AMERICA) INC	Cambridge	United States	104.105.229.120	Massachusetts	02142

AS20940 Akamai International B.V.	Amsterdam	Netherlands	104.104.184.144	North Holland	1091
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	104.103.219.202	North Holland	1091
AS16625 Akamai Technologies, Inc.	Amsterdam	Netherlands	104.102.2.48	North Holland	1091
AS55699 PT. Cemerlang Multimedia	Bandung	Indonesia	103.84.144.179	West Java	
AS135661 Superior Connections private limited	Lahore	Pakistan	103.62.232.86	Punjab	54700
AS63879 UIN Sunan Gunung Djati Bandung	Bandung	Indonesia	103.55.33.1	West Java	
AS203098 Tesonet Ltd	South Brisbane	Australia	103.230.143.254	Queensland	
AS24516 Virtutel Pty Ltd	Redfern	Australia	103.227.203.221	New South Wales	2016
AS134922 R G TECHNOSOLUTIONS PVT LTD	Raebareli	India	103.210.28.65	Uttar Pradesh	
AS37457 Telkom-Internet	Pretoria	South Africa	102.250.93.58	Gauteng	0002
AS9790 CallPlus Services Limited	Christchurch	New Zealand	101.98.47.143	Canterbury	8051
AS9790 CallPlus Services Limited	Lower Hutt	New Zealand	101.98.252.166	Wellington	5011
AS4837 CHINA UNICOM China169 Backbone	Beijing	China	101.72.59.99	Beijing	
AS4837 CHINA UNICOM China169 Backbone	Hangzhou	China	101.71.226.1	Zhejiang	
AS4837 CHINA UNICOM China169 Backbone	Hangzhou	China	101.68.105.154	Zhejiang	
AS4837 CHINA UNICOM China169 Backbone	Hebei	China	101.30.217.19	Hebei	
AS37963 Hangzhou Alibaba Advertising Co.,Ltd.	Hangzhou	China	101.200.152.186	Zhejiang	
AS131486 Beijing Jingdong 360 Degree E-commerce Co., Ltd.	Beijing	China	101.124.19.119	Beijing	
AS46841 Fork Networking, LLC	Evant	United States	100.42.24.225	Texas	
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Albany	United States	100.4.163.179	New York	12205
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Woodhaven	United States	100.37.195.114	New York	11421
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Newark	United States	100.35.105.8	New Jersey	07104
AS5650 Frontier Communications of America, Inc.	Camarillo	United States	100.32.192.15	California	93012

AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Alexandria	United States	100.15.63.86	Virginia	22310
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Greenbelt	United States	100.15.138.191	Maryland	20770
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Elmhurst	United States	100.12.174.227	New York	11373
AS701 MCI Communications Services, Inc. d/b/a Verizon Business	Jamaica	United States	100.12.101.107	New York	11434
AS4134 No.31,Jin-rong Street	Xi'an	China	1.87.139.215	Shaanxi	
AS4134 No.31,Jin-rong Street	Yinchuan	China	1.50.145.80	Ningsia Hui Autonomous Region	
AS4134 No.31,Jin-rong Street	Guiyang	China	1.49.119.253	Guizhou	
AS9318 SK Broadband Co Ltd	Suwon	Republic of Korea	1.253.115.98	Gyeonggi-do	
AS9318 SK Broadband Co Ltd	Gwangju	Republic of Korea	1.249.69.168	Gwangju	
AS9318 SK Broadband Co Ltd	Seoul (Toegye-ro)	Republic of Korea	1.249.47.13	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Wuhai	China	1.24.151.236	Inner Mongolia Autonomous Region	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	1.234.184.106	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	1.231.132.250	Seoul	
AS9318 SK Broadband Co Ltd	Seoul	Republic of Korea	1.229.123.55	Seoul	
AS3786 LG DACOM Corporation	Seoul (Hangangno 3(sam)-ga)	Republic of Korea	1.211.33.89	Seoul	
AS4837 CHINA UNICOM China169 Backbone	Harbin	China	1.189.187.157	Heilongjiang	
AS4766 Korea Telecom	Seongnam-si	Republic of Korea	1.109.245.62	Gyeonggi-do	