

The Peering Database

The [Peering Database](#) is a freely available, user-maintained database of networks which take part in the global Internet. It is considered the authoritative source of all information relating to network operators who participate in peering around the world.

The database facilitates the global interconnection of networks at Internet Exchange Points (IXPs), data centres, and other interconnection facilities, and is the first stop in making interconnection decisions.

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Background

In the early Internet (of the 1990s) there were few network operators and interconnect points around the world that interconnections were relatively straightforward to seek out and implement (in the author's experience anyway). In March 1999 there were 4640 ASNs in the Internet with only 800 providing transit. This compares with today's total exceeding 73000 ASNs and over 10000 ASNs providing transit, never mind that almost every country in the world now has at least one Internet Exchange Point if not a datacentre facilitating commercial interconnects.

In the 1990s establishing new interconnects by attending in major Internet operations meetings (NANOG, RIPE, AfNOG, APRICOT and so on), with network information passed on by word of mouth or email or even by letter!

With the rapid growth of the Internet in the late 1990s and early 2000s, there needed to be a more scalable way for a Network Operator to get their "peering information" out to the global Internet operations community. And hence the PeeringDB was born.

What is the Peering DB

The Peering DB is a repository of the important information that network operators need to determine whether an interconnection is feasible, makes commercial sense, makes technical sense, and is even technically feasible. While the Peering DB website has much more detailed information, the Peering Toolbox is highlighting the key points.

Here are some example entries to show what is possible. The first example (publicly accessible) is of LINX, the London Internet Exchange:

PeeringDB [Advanced Search](#) [Address](#) [List](#)

LINX LON1 Silver Sponsor

Peers	Connections	Open Peers	Total Speed	% with IPv6
811	913	508	36.2T	85

Organization **LINX**

Also Known As	London Internet Exchange Ltd.
Long Name	London
City	London
Country	GB
Continental Region	Europe
Media Type	Ethernet
Service Level	Not Disclosed
Terms	Not Disclosed
Last Updated	2020-06-29T07:53:16Z
Notes	used to be Juniper LAN

[Translate >](#)

Contact Information

Company Website	https://www.linx.net/
Traffic Stats Website	https://portal.linx.net/
Technical Email	support@linx.net
Technical Phone	+44 207 292 1111
Policy Email	info@linx.net
Policy Phone	+44 207 292 1111
Sales Email	
Sales Phone	+44 207 292 1111
Health Check	

LAN

MTU	1500
IX-F Member Export URL	Private
Visibility	

Peers at this Exchange Point [Filter](#)

Peer Name	ASN	Speed	Policy
(as) networks	33920	2G	Selective
195.66.225.115	2001:7B:4::8480:1		
912 Telecom (0111)	201033	10G	Open
	195.66.227.214		
2001:7B:4::3:14cd:1			
912 Smile Telecom	9116	10G	Open
195.66.225.114	2001:7B:4::239a:1		
912 Smile Telecom	9116	10G	Open
195.66.226.60	2001:7B:4::239a:2		
16.1 Versatel Deutschland GmbH	8881	100G	Selective
	195.66.224.246		
2001:7B:4::22b1:1			
100 Percent IT	20915	1G	Open
195.66.225.213	2001:7B:4::51b3:1		
23M GmbH	47447	10G	Open
	195.66.227.70		
2001:7B:4::b957:1			
24Shells Inc	59061	10G	Open
	195.66.227.116		
2001:7B:4::d729:1			
31173 Services AB	39351	10G	Open
	195.66.226.62		
2001:7B:4::99b7:1			
4D Data Centres Ltd	31463	10G	Selective
	195.66.226.62		

which shows a screen capture of what is available at their LON1 site, a scrollable list of the participants, how to contact LINX, etc.

The second example below shows that of a AWS (Amazon Web Services), one of the major content networks on the Internet:

PeeringDB [Advanced Search](#) [Address](#) [List](#)

Amazon.com Silver Sponsor

Organization	Amazon.com
Also Known As	Amazon Web Services
Long Name	
Company Website	http://www.amazon.com
ASN	16509
IRR as-exroute-set	AS-AMAZON
Route Server URL	
Locking Glass URL	
Network Type	Enterprise
IPv4 Prefixes	7500
IPv6 Prefixes	2500
Traffic Levels	Not Disclosed
Traffic Ratios	Balanced
Geographic Scope	Global
Protocols Supported	<input checked="" type="checkbox"/> Unicast IPv4 <input type="checkbox"/> Multicast <input checked="" type="checkbox"/> IPv6 <input checked="" type="checkbox"/> Never via route servers
Last Updated	2022-03-14T23:48:18Z
Public Peering Info Updated	2022-04-27T20:49:30
Peering Facility Info Updated	2022-03-28T23:36:40
Contact Info Updated	2020-12-01T12:29:55Z
Notes	<p>AWS Peering: https://peering.aws/</p> <p>Peering requests:</p> <p>When submitting a peering request, please address the specific regional contact listed below for the location of your request (i.e. peering requests for London should use peering-eMEA@amazon.com while peering requests for Singapore should use peering-apac@amazon.com). This will ensure your request is processed and addressed in a timely fashion. Please do not copy contacts not meant for peering policy in the location of your request.</p> <p>Operational issues:</p> <p>If you experience connectivity issues to Amazon, please</p>

Public Peering Exchange Points [Filter](#)

Exchange	ASN	Speed	RS Peer
AKL-IX (Auckland N2)	16509	100G	<input type="radio"/>
43.243.21.113	2001:7fa:11:6:0:407d:0:2		
AKL-IX (Auckland N2)	16509	100G	<input type="radio"/>
43.243.21.112	2001:7fa:11:6:0:407d:0:1		
AMS-IX	16509	600G	<input type="radio"/>
80.249.210.100	2001:7B:1::a501:6509:1		
AMS-IX	16509	600G	<input type="radio"/>
80.249.210.217	2001:7B:1::a501:6509:2		
AMS-IX Chicago	16509	100G	<input type="radio"/>
206.108.115.36	2001:504:38:1:0:a501:6509:1		
AMS-IX Hong Kong	16509	10G	<input type="radio"/>
103.247.138.10	2001:d0:296::a501:6509:1		
AMS-IX Hong Kong	16509	10G	<input type="radio"/>
103.247.139.74	2001:d0:296::a501:6509:2		
AMS-IX Mumbai	16509	10G	<input type="radio"/>
223.31.200.29	2001:a48:44:100b:0:a501:6509:2		
AMS-IX Mumbai	16509	10G	<input type="radio"/>
223.31.200.30	2001:a48:44:100b:0:a501:6509:1		
Any2Denver	16509	100G	<input type="radio"/>
206.51.48.87	2005:600:303:303::87		
Any2West	16509	100G	<input type="radio"/>
208.72.210.146	2001:504:13:146		

Private Peering Facilities [Filter](#)

Facility	Country
ASN	City
151 Front Street West Toronto	Canada
16509	Toronto
165 Holsey Meet-Me Room	United States of America
16509	Newark
35 John Street / 260 Front Street West	Canada
16509	Toronto

This one shows the Public peering and Private peering facilities AWS is present at. So a potential peer

can check which locations they share with AWS, and then contact them about peering. The page for AWS contains data about number of prefixes, traffic ratios, etc, plus the IP addressing used at the various public Internet connect points. All this is designed to make it easier for prospective peers to assess and reach out to AWS for peering.

And the final example shows Arelion, the operator of AS1299, one of the international transit carriers serving the global Internet:

PeeringDB

Search here for a network, IX, or facility.

Advanced Search

Twelve99

Organization: Arelion

Also Known As: Arelion, WBA Telia Carrier

Long Name:

Company Website: <https://www.arelion.com/>

ASN: 1299

IRR AS-SET: AS-TELIANET RIPE-AS-TELIANET-V6

Route Server URL:

Looking Glass URL: <https://lg.twelve99.net/>

Network Type: NSP

IPv4 Prefixes: 550000

IPv6 Prefixes: 100000

Traffic Levels: 100+Tbps

Traffic Ratios: Balanced

Geographic Scope: Global

Protocols-Supported: Unicast IPv4 Multicast IPv6 Never via route servers

Last Updated: 2022-02-04T13:26:51Z

Public Peering Info Updated:

Peering Facility Info Updated: 2022-04-28T18:22:56

Contact Info Updated: 2021-09-09T14:07:44

Notes: AS1299 is matching RPKI validation state and reject invalid prefixes from peers and customers. Our looking-glass marks validation state for all prefixes. Please review your registered ROAs to reduce number of invalid prefixes.

All trouble ticket requests or support related emails should be sent to support@arelion.com.

As of June 1 2021, Arelion and its affiliates are no longer part of or affiliated with Telia Company.

Public Peering Exchange Points

Exchange	ASN	Speed	RS Peer
IPv4	IPv6		

No filter matches.
You may filter by Exchange, ASN or Speed.

Private Peering Facilities

Facility	ASN	Country	City
123.NET - DC1 - 24700 Northwestern Hwy	1299	United States of America	Southfield
1530 Swift	1299	United States of America	North Kansas City
1623 Farman	1299	United States of America	Omaha
365 Data Centers Buffalo (BUF)	1299	United States of America	Buffalo
365 Data Centers Detroit (DT)	1299	United States of America	Southfield
365 Data Centers Nashville (NA)	1299	United States of America	Nashville
365 Data Centers Tampa (TA)	1299	United States of America	Tampa
EU Rechenzentrum Berlin	1299	Germany	Berlin
R10Telecom Denver	1299	United States of America	Denver
aNet Frankfurt	1299	Germany	Frankfurt
Arelion Dusseldorf CDF/B	1299	Germany	Düsseldorf
Arelion London HEX	1299	United Kingdom	London
Arelion Moscow MSK/01		Russia	

again showing the type of data that are published in the PeeringDB.

Creating a PeeringDB Entry

The Peering Toolbox recommends (strongly) that any entity with their own AS Number and address space should create an entry in the Peering DB. There is no cost to doing so.

A tutorial on how to create an entry is currently beyond the scope of the Peering DB - but the best advice is to look at other PeeringDB entries and use what those entries have to guide what is needed for your own one.

Simply create an account, and populate it with the mandatory entries - and place as much information there as you possibly can. This should minimally be:

- Organisation name
- Organisation website
- ASN
- IRR AS-set
- Network Type
- Number of IPv4 prefixes
- Number of IPv6 prefixes

- Traffic Levels
- Traffic Ratios (inbound to the network, or out from the network)
- Geographic Scope (ie what locations are served)
- Protocols supported (IPv4 and IPv6 are common)
- Peering Policy (Open, Selective, Restricted)
- Contact information (NOC, Policy/Admin, Technical)
- Public Peering Points (if applicable)
- Private Peering Facilities (if applicable)

Why a PeeringDB entry

Today very few network operators will consider peering with an entity that has no PeeringDB entry. In fact, many will make it a requirement before they will even respond to a peering request. Indeed, some operators will go as far as using information in the PeeringDB for configuring peering sessions with their peers, making it essential that the entries are kept up to date.

Therefore, the Peering Toolbox recommendation is that all Network Operators with their own Internet Resources and who wish to take part in the global peering community must create and maintain their PeeringDB entry.

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From:

<https://bgp4all.com/pfs/> - Philip Smith's Internet Development Site



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