

# The Peering Database

The <https://www.peeringdb.com/> 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.

## 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:

Last update:

2022/05/06 peering-toolbox:the\_peering\_database [https://www.bgp4all.com/pfs/peering-toolbox/the\\_peering\\_database?rev=1651813520](https://www.bgp4all.com/pfs/peering-toolbox/the_peering_database?rev=1651813520) 05:05

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**LINX LON1** Silver Sponsor

Peers	811	Connections	913	Open Peers	598	Total Speed	38.2T	% with IPv6	85
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**Organization** **LINX**

Also Known As

Long Name London Internet Exchange Ltd.

City London

Country GB

Continental Region Europe

Media Type Ethernet

Service Level Not Disclosed

Term Not Disclosed

Last Updated 2020-06-29T07:53:16Z

Notes used to be Juniper LAN [Translate](#)

**Contact Information**

Company Website	<a href="https://www.linx.net/">https://www.linx.net/</a>
Traffic Stats Website	<a href="https://portal.linx.net/">https://portal.linx.net/</a>
Technical Email	<a href="mailto:support@linx.net">support@linx.net</a>
Technical Phone	<a href="#">+44 1992 622222</a>
Policy Email	<a href="mailto:info@linx.net">info@linx.net</a>
Policy Phone	<a href="#">+44 1992 622222</a>
Sales Email	<a href="#">+44 1992 622222</a>
Sales Phone	<a href="#">+44 1992 622222</a>
Health Check	<a href="#">View</a>

**LAN**

MTU	1500
IX-F Member Export URL	<a href="#">Private</a>
Visibility	<a href="#">Edit</a>

**Peers at this Exchange Point** [Filter](#)

Peer Name	IPv4	ASN	Speed	Policy
(as) networks	33920	195.66.225.115	2G	Selective
<a href="#">BT Telecom (BT)</a>	201903	2001:7B:4::8400:1	10G	Open
2001:7B:4::3:14cd:1	195.66.227.214			
<a href="#">012 Smile Telecom</a>	9116	2001:7B:4::239c:1	10G	Open
012 Smile Telecom	9116	195.66.226.60	10G	Open
<a href="#">16.1 Versatel Deutschland GmbH</a>	6881	2001:7B:4::22b1:1	100G	Selective
100 Percent IT	20915	195.66.225.213	1G	Open
23M GmbH	47447	195.66.227.70	10G	Open
2001:7B:4::b957:1	195.66.227.116			
<a href="#">24Shells Inc</a>	55061	2001:7B:4::d729:1	10G	Open
<a href="#">31173 Services AB</a>	39351	195.66.226.62	10G	Open
<a href="#">4D Data Centres Ltd</a>	31463	2001:7B:4::99b7:1	10G	Selective

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:

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**Amazon.com** Diamond Sponsor

Organization	Amazon.com
Also Known As	Amazon Web Services
Long Name	
Company Website	<a href="https://www.amazon.com">https://www.amazon.com</a>
ASN	16509
IRR as-exthost-set	AS-AMAZON
Route Server URL	
Looking 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	2020-12-01T12:29:56Z
Notes	<p>AWS Peering: <a href="https://peering.aws/">https://peering.aws/</a></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 <a href="mailto:peering-eu@amazon.com">peering-eu@amazon.com</a> while peering requests for Singapore should use <a href="mailto:peering-apac@amazon.com">peering-apac@amazon.com</a>.) 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	IPv4	ASN	Speed	RS Peer
AKL-IX (Auckland NZ)	16509	2001:7B:11:6:0:407d:0:2	100G	<a href="#">Edit</a>
43.243.21.113				
AKL-IX (Auckland NZ)	16509	2001:7B:11:6:0:407d:0:1	100G	<a href="#">Edit</a>
43.243.21.112				
AMS-IX	16509	60.249.210.100	600G	<a href="#">Edit</a>
		2001:7B:1::a501:6509:1		
AMS-IX	16509	60.249.210.217	600G	<a href="#">Edit</a>
		2001:7B:1::a501:6509:2		
AMS-IX Chicago	16509	206.108.115.36	100G	<a href="#">Edit</a>
		2001:904:38:1::a501:6509:1		
AMS-IX Hong Kong	16509	103.247.138.10	10G	<a href="#">Edit</a>
		2001:d0:296::a501:6509:1		
AMS-IX Hong Kong	16509	103.247.138.74	10G	<a href="#">Edit</a>
		2001:d0:296::a501:6509:2		
AMS-IX Mumbai	16509	223.31.200.29	10G	<a href="#">Edit</a>
		2001:a48:44:100b:0:a501:6509:2		
AMS-IX Mumbai	16509	223.31.200.30	10G	<a href="#">Edit</a>
		2001:a48:44:100b:0:a501:6509:1		
Amsterdam	16509	206.51.46.87	100G	<a href="#">Edit</a>
		2005:600:303:303:87		
Amsterdam	16509	206.72.210.146	100G	<a href="#">Edit</a>
		2001:504:13:146		

**Private Peering Facilities** [Filter](#)

Facility	ASN	Country	City
151 Front Street West Toronto	16509	Canada	Toronto
16509			
165 Hesley Meet-Me Room	16509	United States of America	Newark
16509			
36 John Street / 260 Front Street West	16509	Canada	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 Aerelion (formerly Telia Carrier), the operator of AS1299, one of the international transit carriers serving the global Internet:

The screenshot shows the PeeringDB entry for Aerelion (AS1299). The organization details include:

- Organization: Aerelion
- Also Known As: Aerelion, via Telia Carrier
- Long Name: Aerelion
- Company Website: <https://www.aerelion.com/>
- ASN: 1299
- IRR: <http://as-1299.route-set>
- Route Server URL: <https://lg.twelve99.net/>
- Network Type: NSP
- IPv4 Prefixes: 580000
- 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: 2022-02-04T13:28:51Z
- Public Peering Info Updated: 2022-04-28T18:22:06
- Peering Facility Info Updated: 2022-04-28T18:22:06
- 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@aerelion.com](mailto:support@aerelion.com). As of June 1 2021, Aerelion and its affiliates are no longer part of or affiliated with Telia Company.

Public Peering Exchange Points:

Exchange ID (IPv4)	ASN (IPv6)	Speed	RS Peer
No filter matches. You may filter by Exchange, ASN or Speed.			

Private Peering Facilities:

Facility ID 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 (DT1), 1299	United States of America Southfield
365 Data Centers Nashville (NA1), 1299	United States of America Nashville
365 Data Centers Tampa (TA1), 1299	United States of America Tampa
3U Rechenzentrum Berlin, 1299	Germany Berlin
910Telecom Denver, 1299	United States of America Denver
akel Frankfurt, 1299	Germany Frankfurt
Aerelion Dusseldorf (DDF)B, 1299	Germany Düsseldorf
Aerelion London HEX, 1299	United Kingdom London
Aerelion Moscow MSK101, 1299	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.

## 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.

[Back to "What I need to Peer" page](#)

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