

# 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.

- [Background](#)
- [What is the PeeringDB](#)
- [Creating a PeeringDB entry](#)
- [Why a PeeringDB entry is needed](#)

## 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  
05:25

peering-toolbox:the\_peering\_database https://bgp4all.com.au/pfs/peering-toolbox/the\_peering\_database?rev=1651814757

**PeeringDB** Search here for a network, IX, or facility. **eflinox**

**LINX LON1** Silver Sponsor

Peers: 811 | Connections: 913 | Open Peers: 508 | Total Speed: 39.2T | % with IPv6: 85

**Organization** LINX  
Also Known As: London Internet Exchange Ltd.  
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

**Contact Information**  
Company Website: <https://www.linx.net/>  
Traffic Stats Website: <https://portal.linx.net/>  
Technical Email: [support@linx.net](mailto:support@linx.net)  
Technical Phone:   
Policy Email: [info@linx.net](mailto:info@linx.net)  
Policy Phone:   
Sales Email:   
Sales Phone:   
Health Check:

**LAN**  
MTU: 1500  
IX-F Member Export URL: Private  
Visibility:

**Peers at this Exchange Point**

Peer Name	ASIN	Speed	Policy
(as) networks	33920	2G	Selective
01 Telecom (O1.T)	201933	10G	Open
012 Smile Telecom	9116	10G	Open
1&1 Versatel Deutschland GmbH	8881	100G	Selective
23M GmbH	47447	10G	Open
24Shellia Inc	55061	10G	Open
31173 Services AB	38351	10G	Open
4D Data Centres Ltd	31463	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:

**PeeringDB** Search here for a network, IX, or facility. **eflinox**

**Amazon.com** Diamond Sponsor

Organization: Amazon.com  
Also Known As: Amazon Web Services  
Company Website: <https://www.amazon.com>  
ASN: 16509  
IRR as-set: route-set: AS-AMAZON  
Route Server URL:   
Looking Glass URL:   
Network Type: Enterprise  
IPv4 Prefixes: 7900  
IPv6 Prefixes: 2500  
Traffic Levels: Not Disclosed  
Traffic Ratios: Balanced  
Geographic Scope: Global  
Protocols Supported: Unicast IPv4, Multicast, IPv6, Never via route servers  
Last Updated: 2022-03-14T23:48:18Z  
Public Peering Info Updated: 2022-04-27T20:48:30  
Peering Facility Info Updated: 2022-03-28T23:35:40  
Contact Info Updated: 2020-12-01T12:28:55Z  
Notes: AWS Peering: <https://peering.aws/>  
Peering requests:   
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](mailto:peering-emea@amazon.com) while peering requests for Singapore should use [peering-apac@amazon.com](mailto: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.  
Operational issues:   
If you experience connectivity issues to Amazon, please

**Public Peering Exchange Points**

Exchange	ASN	Speed	RS Peer
AKL-IX (Auckland NZ)	16509	100G	
AMS-IX	16509	600G	
AMS-IX Chicago	16509	100G	
AMS-IX Hong Kong	16509	10G	
AMS-IX Hong Kong	16509	10G	
AMS-IX Mumbai	16509	10G	
AMS-IX Mumbai	16509	10G	
Any2Denver	16509	100G	
Any2West	16509	100G	

**Private Peering Facilities**

Facility	Country
151 Front Street West Toronto	Canada
165 Halsey Meet-Me Room	United States of America
35 John Street / 290 Front Street West	Canada

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 Aereion (formerly Telia Carrier), the operator of AS1299, one of the international transit carriers serving the global Internet:

The screenshot shows the PeeringDB entry for AS1299, Aereion. The left sidebar contains the following details:

- Organization: Aereion
- Also Known As: Aereion, Telia Telia Carrier
- Long Name:
- Company Website: <https://www.aereion.com/>
- ASN: 1299
- IRR as-set/route-set: RIPE::AS-TELIANET RIPE::AS-TELIANET-V8
- 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: 2022-02-04T13:28:51Z
- 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 RQAs to reduce number of invalid prefixes. All trouble ticket requests or support related emails should be sent to [support@aereion.com](mailto:support@aereion.com). As of June 1 2021, Aereion and its affiliates are no longer part of or affiliated with Telia Company.

The right side of the page is divided into two sections:

- Public Peering Exchange Points:** A table with columns for Exchange, ASN, IPv4, IPv6, Speed, and RS Peer. A message states: "No filter matches. You may filter by Exchange, ASN or Speed."
- Private Peering Facilities:** A table with columns for Facility, ASN, Country, and City. It lists various data centers such as 123.NET - DC1 - 24700 Northeastern Hwy, 1299, United States of America, Southfield; 1530 Swift, 1299, United States of America, North Kansas City; 1623 Farmington, 1299, United States of America, Omaha; 365 Data Centers Buffalo (BU1), 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 Danver, 1299, United States of America, Danver; stx1 Frankfurt, 1299, Germany, Frankfurt; Aereion Düsseldorf DDF/B, 1299, Germany, Düsseldorf; Aereion London HEX, 1299, United Kingdom, London; and Aereion Moscow MSK/D1, 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.

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 (you created one earlier)
- Network Type
- Number of IPv4 prefixes

- Number of IPv6 prefixes
- Traffic Levels
- Traffic Ratios (inbound to your network, or out from your network)
- Geographic Scope (ie what locations do you serve)
- 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 be considering 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.

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

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

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Last update: **2022/05/06 05:25**

