

# 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 step 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:

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

**LINX LON1** Silver Sponsor

Peers: 811 | Connections: 913 | Open Peers: 998 | Total Speed: 36.2T | % with IPv6: 85

**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  
**Terra:** 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  
**Technical Phone:**  
**Policy Email:** 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 IPv4                                   | ASN IPv6                 | Speed | Policy    |
|--|--------------------------|-------|-----------|
| (as) networks 195.66.225.115                     | 33920 2001:7fb:4::8400:1 | 2G    | Selective |
| 01 Telecom (01.T) 2001:7fb:4::3:14cd:1           | 201603 195.66.227.214    | 10G   | Open      |
| 012 Smile Telecom 195.66.225.114                 | 9116 2001:7fb:4::239c:1  | 10G   | Open      |
| 012 Smile Telecom 195.66.226.90                  | 9116 2001:7fb:4::239c:2  | 10G   | Open      |
| 1&1 Versatel Deutschland GmbH 2001:7fb:4::22b1:1 | 6881 195.66.224.245      | 100G  | Selective |
| 100 Percent IT 195.66.225.213                    | 20915 2001:7fb:4::51b3:1 | 1G    | Open      |
| 23M GmbH 2001:7fb:4::b957:1                      | 47447 195.66.227.70      | 10G   | Open      |
| 24Shells Inc 2001:7fb:4::d729:1                  | 55061 195.66.227.116     | 10G   | Open      |
| 31173 Services AB 2001:7fb:4::99b7:1             | 39351 195.66.226.62      | 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. Advanced Search

**Amazon.com** Diamond Sponsor

**Organization:** Amazon.com  
**Also Known As:** Amazon Web Services  
**Long Name:**  
**Company Website:** https://www.amazon.com  
**ASN:** 16509  
**IRR as-set/route-set:** AS-AMAZON  
**Route Server URL:**  
**Locking Class URL:**  
**Network Type:** Enterprise  
**IPv4 Prefix:** 7500  
**IPv6 Prefix:** 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:** 2022-04-27T20:49:30  
**Peering Facility Info Updated:** 2022-03-28T23:35:40  
**Contact Info Updated:** 2020-12-01T12:29:55Z  
**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 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.  
 Operational issues:  
 If you experience connectivity issues to Amazon, please

**Public Peering Exchange Points**

| Exchange IPv4                      | ASN IPv6                             | Speed | RS Peer |
|------------------------------------|--------------------------------------|-------|---------|
| AKL-IX (Auckland NZ) 43.243.21.113 | 16509 2001:7fa:11:6:0:407d:0:2       | 100G  |         |
| AKL-IX (Auckland NZ) 43.243.21.112 | 16509 2001:7fa:11:6:0:407d:0:1       | 100G  |         |
| AMS-IX 80.249.210.100              | 16509 2001:7fb:1::a501:6509:1        | 600G  |         |
| AMS-IX 80.249.210.217              | 16509 2001:7fb:1::a501:6509:2        | 600G  |         |
| AMS-IX Chicago 206.100.115.36      | 16509 2001:504:30:1:0:a501:6509:1    | 100G  |         |
| AMS-IX Hong Kong 103.247.139.10    | 16509 2001:d0:296::a501:6509:1       | 10G   |         |
| AMS-IX Hong Kong 103.247.139.74    | 16509 2001:d0:296::a501:6509:2       | 10G   |         |
| AMS-IX Mumbai 223.31.200.29        | 16509 2001:a48:44:100b:0:a501:6509:2 | 10G   |         |
| AMS-IX Mumbai 223.31.200.30        | 16509 2001:a48:44:100b:0:a501:6509:1 | 10G   |         |
| Any2Denver 206.51.46.87            | 16509 2605:600:303:303:87            | 100G  |         |
| Any2West 206.72.210.146            | 16509 2001:504:13:146                | 100G  |         |

**Private Peering Facilities**

| Facility ASN                                 | Country City                    |
|--|---------------------------------|
| 151 Front Street West Toronto 16509          | Canada Toronto                  |
| 165 Halsey Meet-Me Room 16509                | United States of America Newark |
| 35 John Street / 200 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 Aereion (formely Telia Carrier), the operator of AS1299, one of the international transit carriers serving the global Internet:

**Twelve99**

Organization: Aereion  
 Also Known As: Aereion, Oldia Telia Carrier  
 Long Name: Aereion  
 Company Website: <https://www.aereion.com/>  
 ASN: 1299  
 IRR as-set/route-set: RIPE:AS-TELIANET RIPE:AS-TELIANET-V6  
 Route Server URL: <https://rs.twelve99.net/>  
 Looking Glass URL: <https://lg.twelve99.net/>  
 Network Type: NSP  
 IPv4 Prefixes: 590000  
 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: 2022-04-28T18:22:56  
 Peering Facility Info Updated: 2021-09-09T14:07:44  
 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 RDMs 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.

**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 Northeastern Hwy. | 1299 | United States of America | Southfield        |
| 1530 Swift                              | 1299 | United States of America | North Kansas City |
| 1623 Farnam                             | 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 Denver                       | 1299 | United States of America | Denver            |
| stet1 Frankfurt                         | 1299 | Germany                  | Frankfurt         |
| Aereion Düsseldorf DDF1B                | 1299 | Germany                  | Düsseldorf        |
| Aereion London HEX                      | 1299 | United Kingdom           | London            |
| Aereion Moscow MSK1D1                   | 1299 | Russia                   |                   |

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

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

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