

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:



PeeringDB

Search here for a network, IP, or facility.

Advanced Search

Peers

811

Connections

913

Open Peers

908

Total Speed

39.2T

% with IPv6

85

LINX LON1

Silver Sponsor

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

Translate

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

Filter

Peer Name IPv4	ASN IPv6	Speed	Policy
(as) networks 195.66.225.115	33920 2001:7f8:4::3490:1	2G	Selective
Q1 Telecom (Q1.T) 2001:7f8:4::3:14cd:1	201933 195.66.227.214	10G	Open
Q12 Smile Telecom 195.66.225.114	9116 2001:7f8:4::239c:1	10G	Open
Q12 Smile Telecom 195.66.226.90	9116 2001:7f8:4::239c:2	10G	Open
1&1 Versandel Deutschland GmbH 2001:7f8:4::22b1:1	6081 195.66.224.245	100G	Selective
100 Percent IT 195.66.225.213	20915 2001:7f8:4::51b3:1	1G	Open
23M GmbH 2001:7f8:4::b957:1	47447 195.66.227.70	10G	Open
24Shellz Inc 2001:7f8:4::d729:1	55061 195.66.227.116	10G	Open
31173 Services AB 2001:7f8:4::99b7:1	36351 195.66.226.62	10G	Open
4D Data Centres Ltd 2001:7f8:4::99b7:1	31463 195.66.226.62	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

Diamond Sponsor

Organization	Amazon.com
Also Known As	Amazon Web Services
Long Name	
Company Website	http://www.amazon.com
ASN	16509
IRR as-set/route-set	AS-AMAZON
Route Server URL	
Looking Glass URL	
Network Type	Enterprise
IPv4 Prefixes	7500
IPv6 Prefixes	2500
Traffic Levels	Not Disclosed
Traffic Ratio	Balanced
Geographic Scope	Global
Protocols Supported	<input checked="" type="checkbox"/> Unicast IPv4 <input type="checkbox"/> Multicast <input 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	2022-03-28T23:35:40
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

Filter

Exchange	ASN	Speed	RS Peer
IPv4	IPv6		
AKI-IX (Auckland NZ)	16509	100G	<input type="radio"/>
43.243.21.113	2001:7fa:11:6:0:407d:0:2		
AKI-IX (Auckland NZ)	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	2001:78b:1::a501:6509:1		
AMS-IX	16509	600G	<input type="radio"/>
80.249.210.217	2001:78b: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"/>
103.247.139.10	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:e4b:44:100b:0:a501:6509:2		
AMS-IX Mumbai	16509	10G	<input type="radio"/>
223.31.200.30	2001:e4b:44:100b:0:a501:6509:1		
Amv2Denver	16509	100G	<input type="radio"/>
206.51.46.87	2605:6:00:303:303::87		
Amv2West	16509	100G	<input type="radio"/>
206.72.210.146	2001:504:13:146		

Private Peering Facilities

Filter

Facility	ASN	Country
City		
151 Front Street West Toronto	16509	Canada
165 Halsey Meet-Me Room	16509	United States of America
26 John Street / 260 Front Street West	16509	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 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, Ula Tolia Carrier
Long Name	
Company Website	https://www.arelion.com/
ASN	1299
IRR as-set/route-set	RIPE:AS-TOLIANET RIPE:AS-TOLIANET-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	<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	2022-02-04T13:28:51Z
Public Peering Info Updated	
Peering Facility Info Updated	2022-04-28T18:22:56
Contact Info Updated	2021-09-09T14:07:44

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	Country
ASN	City
123.NET - DC1 - 24700 Northeastern	United States of America
1299	Southfield
1530 Swift	United States of America
1299	North Kansas City
1623 Farnam	United States of America
1299	Omaha
365 Data Centers Buffalo (BU1)	United States of America
1299	Buffalo
365 Data Centers Detroit (DT1)	United States of America
1299	Southfield
365 Data Centers Nashville (NA1)	United States of America
1299	Nashville
365 Data Centers Tampa (TA1)	United States of America
1299	Tampa
3U Rechenzentrum Berlin	Germany
1299	Berlin
910Telecom Denver	United States of America
1299	Denver
ptel Frankfurt	Germany
1299	Frankfurt
Arelion Düsseldorf DDF1B	Germany
1299	Düsseldorf
Arelion London HEX	United Kingdom
1299	London
Arelion Moscow MSK1D1	Russia

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 RDAs 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 Tolia Company.

[Translate](#)

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 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 is required for Peering" page](#)

From:

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

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Last update: **2023/04/30 04:50**

