

PeeringDB

The background of the slide features a stylized representation of the Earth, showing the Americas. The globe is overlaid with a complex network of glowing green and blue lines that represent data connections or network paths. These lines radiate from various points across the continents, creating a sense of global connectivity. The overall aesthetic is high-tech and digital.

APRICOT 2012

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DE-CIX
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Disclaimer

- Although I am employed by DE-CIX, this presentation is unrelated to DE-CIX
- The PeeringDB is not owned, operated, or in any way associated with DE-CIX or any affiliation peeringDB admins work for, other than they may be participants in the DB - as are roughly 3800 other networks

What is PeeringDB?

<http://www.peeringdb.com/>

- The PeeringDB is an open repository for networks to store and communicate peering-related information
- Each network is responsible for the information in their own peering record
 - Even IXes or facilities are not allowed to add participants

PeeringDB Screen Shot

| | | | | |
|----------------------------------|---|------------|---------------------------------|-------------------------|
| Navigation | Global System Statistics | | Your User Account Status | |
| Home Page | Total Peering Networks | 3664 | Account Login | anipper |
| Logout | Total Public Exchange Points | 338 | Access Level | Level 5 (Administrator) |
| Your Records | Total Unique Public Exchange Presences | 11820 | Peering Record | DE-CIX Management GmbH |
| Peering Record | Total Private Facilities | 933 | | |
| User Account | Total Unique Private Facility Presences | 7432 | | |
| Search Records | Last 15 Updated Participants | | | |
| Networks | Company Name | ASN | Date Last Updated | |
| Exchange Points | Plusnet plc | 6871 | 12/19/11, 04:53:34 AM GMT | |
| Facilities | BSE Software GmbH | 9044 | 12/19/11, 02:36:20 AM GMT | |
| Common Points | Globe Telecom | 4775 | 12/18/11, 08:48:00 PM GMT | |
| Suggestions | MEDIACTIVE NETWORK | 197133 | 12/18/11, 11:43:59 AM GMT | |
| Comments | Telefónica Germany | 6805 | 12/17/11, 07:07:51 PM GMT | |
| New Exchange | DeltaTelecom | 29049 | 12/17/11, 07:33:25 AM GMT | |
| New Facility | Hong Kong Broadband Network LTD | 9269 | 12/17/11, 02:29:38 AM GMT | |
| Administrative | Syringa Networks | 15305 | 12/16/11, 07:32:32 PM GMT | |
| Pending Approval | Wi-Manx Limited | 42455 | 12/16/11, 07:29:35 PM GMT | |
| Add Exchange | Kingston Communications PLC | 12390 | 12/16/11, 03:06:06 PM GMT | |
| Add Facility | Mid-Atlantic Terascale Partnership - MATP | 40220 | 12/16/11, 03:02:33 PM GMT | |
| Add Network | Interactive 3D BV | 49544 | 12/16/11, 02:44:16 PM GMT | |
| User Search | Lab Group | 44295 | 12/16/11, 10:13:11 AM GMT | |
| Help | Omnifone | 51205 | 12/16/11, 08:19:23 AM GMT | |
| FAQ | TalkTalk Technology | 13285 | 12/16/11, 06:00:34 AM GMT | |
| Statistics | | | | |

NOTE: Sending Unsolicited Commercial Emails to contacts mined from PeeringDB will result in a ban and public embarrassment.
 (c) 2004-2009 PeeringDB, All Rights Reserved. Please contact support@peeringdb.com with questions/problems.

PeeringDB Screen Shot

| Company Information | | | | Public Peering Exchange Points | | | | | | |
|----------------------------|---|-------------------------------------|--------------------|--|-------|-------------------------------------|----------|--------------------------|-------------------------------------|--------------------------|
| Company Name | Akamai Technologies | | | Exchange Point Name | ASN | IP Address | Mbit/sec | | | |
| Also Known As | 12222 | | | NIX-CZ | 20940 | 91.210.16.221 | 20000 | | | |
| Company Website | http://www.akamai.com/ | | | SwissIX | 20940 | 91.206.52.56 | 20000 | | | |
| Primary ASN | 20940 | | | WORK-IX | 20940 | 80.81.203.168 | 20000 | | | |
| IRR Record | AS-AKAMAI | | | ALP-IX | 20940 | 80.81.202.168 | 10000 | | | |
| Network Type | Content | | | DE-CIX | 20940 | 80.81.192.28 | 80000 | | | |
| Approx Prefixes | 25 | | | DE-CIX | 20940 | 80.81.192.168 | 80000 | | | |
| Traffic Levels | 1 Tbps+ | | | MICE | 20940 | 69.147.218.84 | 10000 | | | |
| Traffic Ratios | Heavy Outbound | | | PaNAP | 20940 | 62.35.254.86 | 10000 | | | |
| Geographic Scope | Global | | | MICE | 20940 | 2607:fe10:ffff::84 | 10000 | | | |
| Looking Glass URL | | | | BBDX | 20940 | 218.100.6.22 | 1000 | | | |
| Route Server URL | | | | JPIX | 20940 | 210.171.224.201 | 10000 | | | |
| Notes | | | | JPIX | 20940 | 210.171.224.197 | 10000 | | | |
| Protocols Supported | Unicast IPv4 | <input checked="" type="checkbox"/> | Multicast | <input type="checkbox"/> | IPv6 | <input checked="" type="checkbox"/> | | | | |
| Date Last Updated | 2011-10-22 06:25:39 UTC | | | 1 2 3 4 5 of 10 Next Last >> | | | | | | |
| Peering Policy Information | | | | Private Peering Facilities | | | | | | |
| Peering Policy URL | http://www.akamai.com/peering/ | | | Facility Name | ASN | City | Country | SONET | Ethr | ATM |
| General Policy | Open | | | 151 Front Street West Toronto | 20940 | Toronto | CA | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Multiple Locations | Not Required | | | CoreSite Los Angeles (One Wilshire) | 20940 | Los Angeles | US | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Ratio Requirement | No | | | CoreSite San Jose (55) | 20940 | San Jose | US | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Contract Requirement | Not Required | | | Equinix Ashburn (DC1-DC6) | 20940 | Ashburn | US | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Contact Information | | | | Equinix Atlanta (AT2/3) | 20940 | Atlanta | US | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Role | Contact Name | Telephone | E-Mail | Equinix Chicago (CH1/CH2) | 20940 | Chicago | US | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| NOC | NOC | +1 617 444-3007 | noc@akamai.com | Equinix Dallas (DA1) | 20940 | Dallas | US | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Technical | Network Engineering | +1 617 444-3007 | peering@akamai.com | Equinix Dallas (DA3) | 20940 | Dallas | US | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Policy | Peering Coordinator | +1 617 444-2839 | peering@akamai.com | Equinix Hong Kong (HK1) | 20940 | Hong Kong | HK | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | | | Equinix Los Angeles (LA1) | 20940 | Los Angeles | US | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | | | Equinix New York (111 8th) | 20940 | New York | US | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | | | Equinix Newark (NY1) | 20940 | Newark | US | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | | | 1 2 3 of 3 Next Last >> | | | | | | |

PeeringDB Screen Shot

Public Exchange Point Detailed View (Admin: [Edit](#))

| | |
|---------------------|---|
| Common Name | DE-CIX |
| Long Name | Deutscher Commercial Internet Exchange |
| City | Frankfurt |
| Country | DE |
| Continental Region | Europe |
| Media Type | Ethernet |
| Protocols Supported | Unicast IPv4 <input checked="" type="checkbox"/> Multicast <input checked="" type="checkbox"/> IPv6 <input checked="" type="checkbox"/> |

Contact Information

| | |
|----------------------------|---|
| Company Website | http://www.de-cix.net |
| Traffic Statistics Website | http://www.de-cix.net/info/traffic.html |
| Technical E-Mail | support@de-cix.net |
| Technical Phone | +49 69 1730 902 11 |
| Policy E-Mail | sales@de-cix.net |
| Policy Phone | +49 69 1730 902 12 |

IP Address Blocks

| Type | Address Block | Reverse DNS Scan |
|----------------|----------------|----------------------|
| IPv4 Unicast | 80.81.192.0/22 | Link |
| IPv6 Unicast | 2001:7f8::/64 | Unsupported |
| IPv4 Multicast | 80.81.200.0/24 | Link |

Local Facilities

| Facility Name | City | Country | Participant Count |
|---|-----------|---------|-------------------|
| Ancotel Frankfurt | Frankfurt | DE | 153 |
| Databurg Frankfurt | Frankfurt | DE | 12 |
| Equinix Frankfurt City (FR1) | Frankfurt | DE | 10 |
| Equinix Frankfurt North (FR2) | Frankfurt | DE | 7 |
| Global Crossing Frankfurt | Frankfurt | DE | 3 |
| InterXion Frankfurt 1 | Frankfurt | DE | 58 |

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List of Peers at this Exchange Point (Total: 360)

| Peer Name | Local ASN | IP Address | IPs | Policy |
|---|-----------|--------------------------|-----|-------------|
| 012 Smile Telecom | 9116 | 2001:7f8::239c:0:1 | 2 | Selective |
| 013 Netvision | 1680 | 80.81.194.47 | 1 | Restrictive |
| 1&1 Internet | 8560 | 2001:7f8::2170:0:1 | 4 | Open |
| A1 Telekom Austria AG | 8447 | 2001:07f8:0:0:0:20ff:0:1 | 2 | Open |
| Abovetnet Communications Inc. | 6461 | | 1 | Restrictive |
| Accelerated IT Services GmbH | 31400 | 2001:7f8::7aa8:0:1/64 | 2 | Open |
| Ad Net Market Media SA | 5541 | 2001:7f8::15a5:0:1 | 2 | Open |
| ADTECH AG | 8939 | 80.81.192.167 | 1 | Open |
| Afilias | 12041 | 2001:7f8::2f09:0:1/64 | 2 | Open |
| AFNIC | 2484 | 2001:7f8::9b4:0:1 | 2 | Open |
| Akamai Technologies | 20940 | 2001:7f8::51cc:0:168 | 4 | Open |
| Amazon.com | 16509 | 80.81.194.152 | 1 | Open |
| Amis d.o.o. | 8591 | 2001:7f8::218f:0:1 | 2 | Open |
| Anders Telecom | 39792 | 2001:7f8::9b70:0:1 | 2 | Selective |
| Aquatix IT-Services e.K. | 25489 | 2001:7f8::6391:0:1 | 2 | Open |
| AT&T EMEA - AS2686 | 2686 | 2001:7f8::A7E:0:1/64 | 4 | Selective |
| ATM S.A. | 24724 | 2001:7f8::6094:0:1 | 2 | Open |
| Atos Worldline | 8677 | 80.81.194.160 | 1 | Open |
| Atrato IP Networks | 5580 | 2001:7f8::15cc:0:1 | 4 | Selective |
| Avalo Networks / Port80 | 16150 | 2001:7f8::3f16:0:1 | 2 | Restrictive |
| Averbo GmbH | 25220 | 2001:7f8::6284:0:1 | 2 | Open |
| Badoo Ltd | 12678 | 80.81.194.162 | 1 | Open |
| Bahnhof | 8473 | 2001:7f8::2119:0:1 | 2 | Selective |

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PeeringDB & Spam

- Footer on every page of PeeringDB:

NOTE: Sending Unsolicited Commercial Emails to contacts mined from PeeringDB will result in a ban and public embarrassment.

- Please report all spam to support@peeringDB

What is PeeringDB?

- PeeringDB allows a network to register peering locations, speeds, IP addresses, policies, traffic, ratio, contact information, etc.
- There is a finger server, whois server, mySQL and open URLs
 - finger as20940@peeringdb.com
 - whois -h peeringdb.com as20940
 - mysql -u peeringdb -ppeeringdb -h peeringdb.com Peering
 - <http://as20940.peeringdb.com/>
- Some networks require a PeeringDB record to bring up a peering session

What is PeeringDB?

- Registration is free
- Mostly for networks doing “settlement free peering”
- Any network which is peering (private or public peering) is granted an account
 - No exceptions
 - Accounts can be revoked for abuse (e.g. sales staff spamming other members)
- Goal is to have every network peering anywhere in the world into the DB

PeeringDB Independence

- PeeringDB works hard to avoid bias or even the appearance of bias
- Independence is critical to the users of the DB
- Makes it difficult to accept donations of money
- Doesn't mean we are not looking for help!

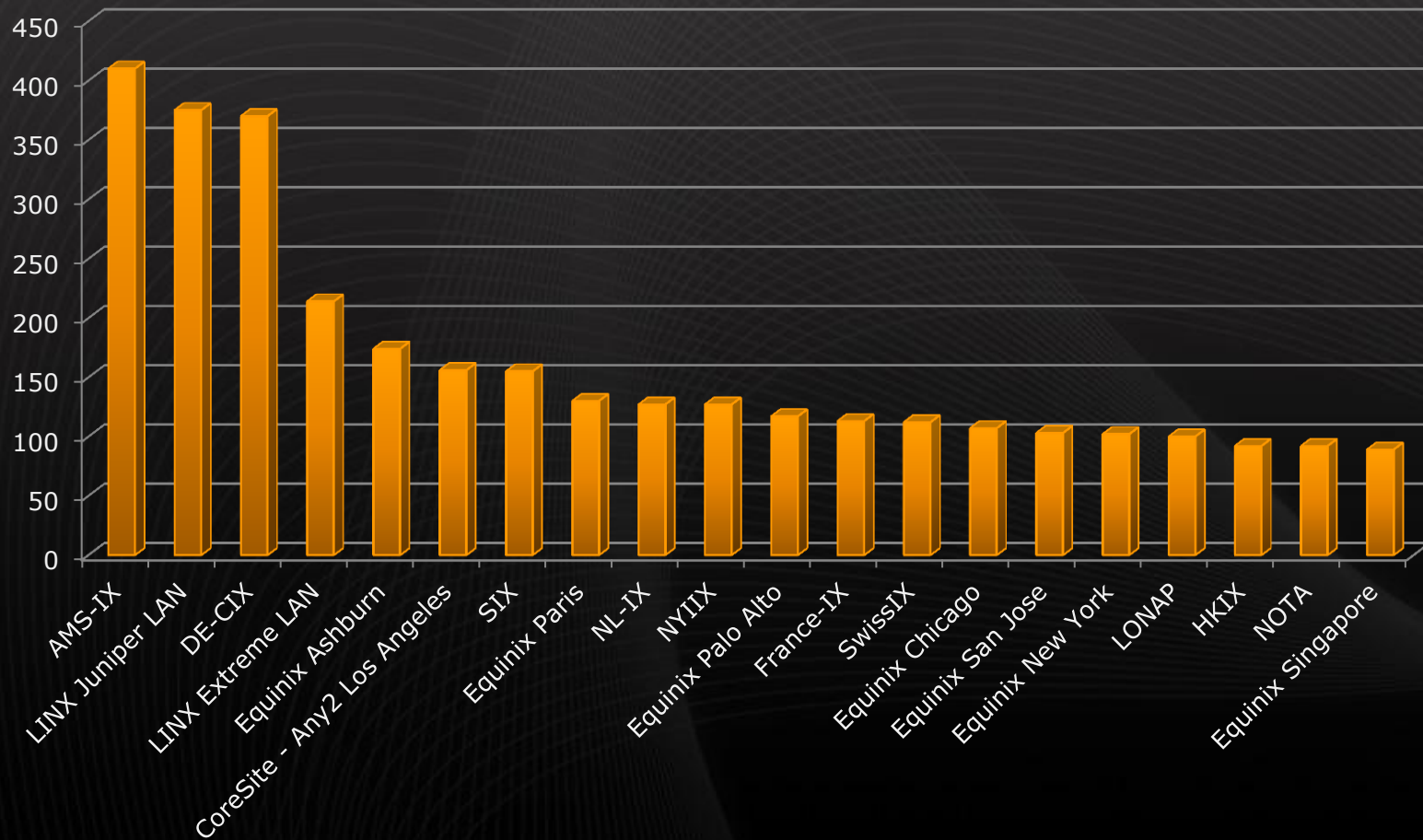
Who is PeeringDB?

- The PeeringDB is a 100% volunteer-driven organization
 - No money from anyone
- Richard Steenbergen wrote the database
- Matt Griswold is currently re-working the GUI
- Running on donated hardware
- Server Central supplies the network connectivity
- Incorporated since September 2011
- Admin team:

Aaron Hughes, Adam Rothschild, Andrew Alston, Arnold Nipper, Charles Gucker, Chris Malayter, Dave Temkin, Dominik Bay, Eric Bell, Jezzibell Gilmore, Matt Griswold, Patrick Gilmore, Randy Ebstein, Richard Steenbergen, Terry Rodery, Tom Scholl

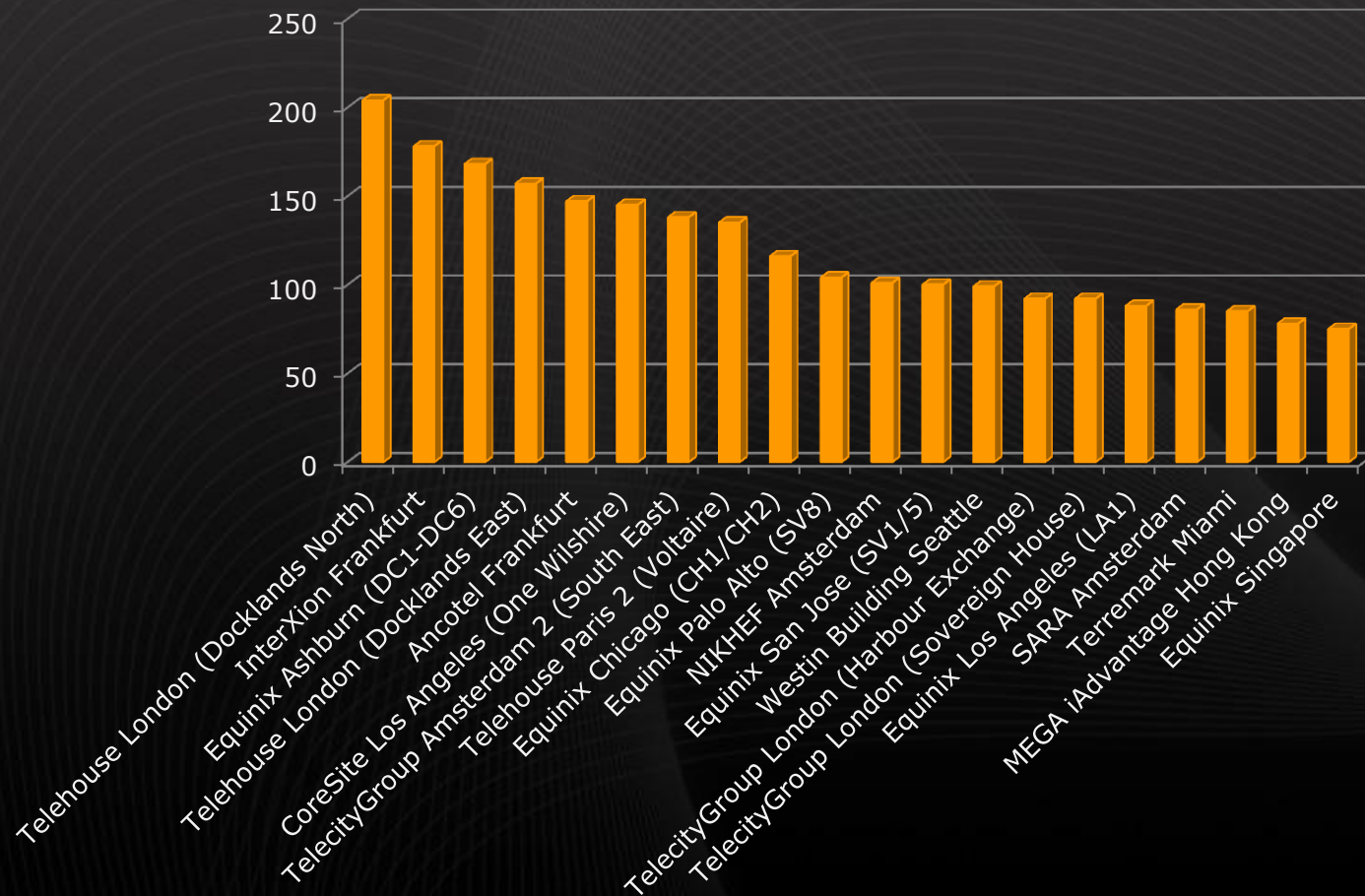
PeeringDB stats by IXP

- Top 20 IXP's by participants



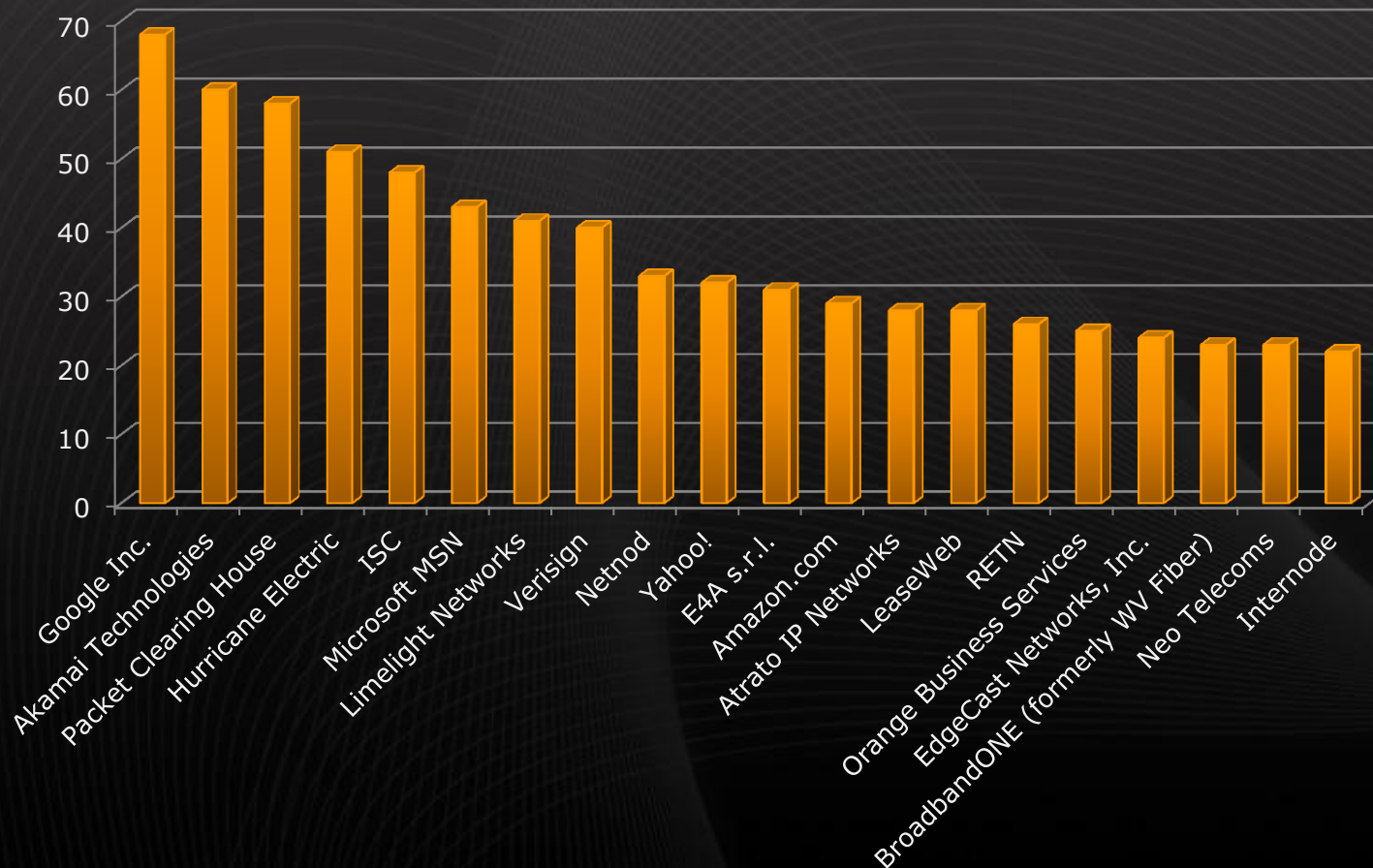
PeeringDB stats by facilities

- Top 20 colocation facilities by participants



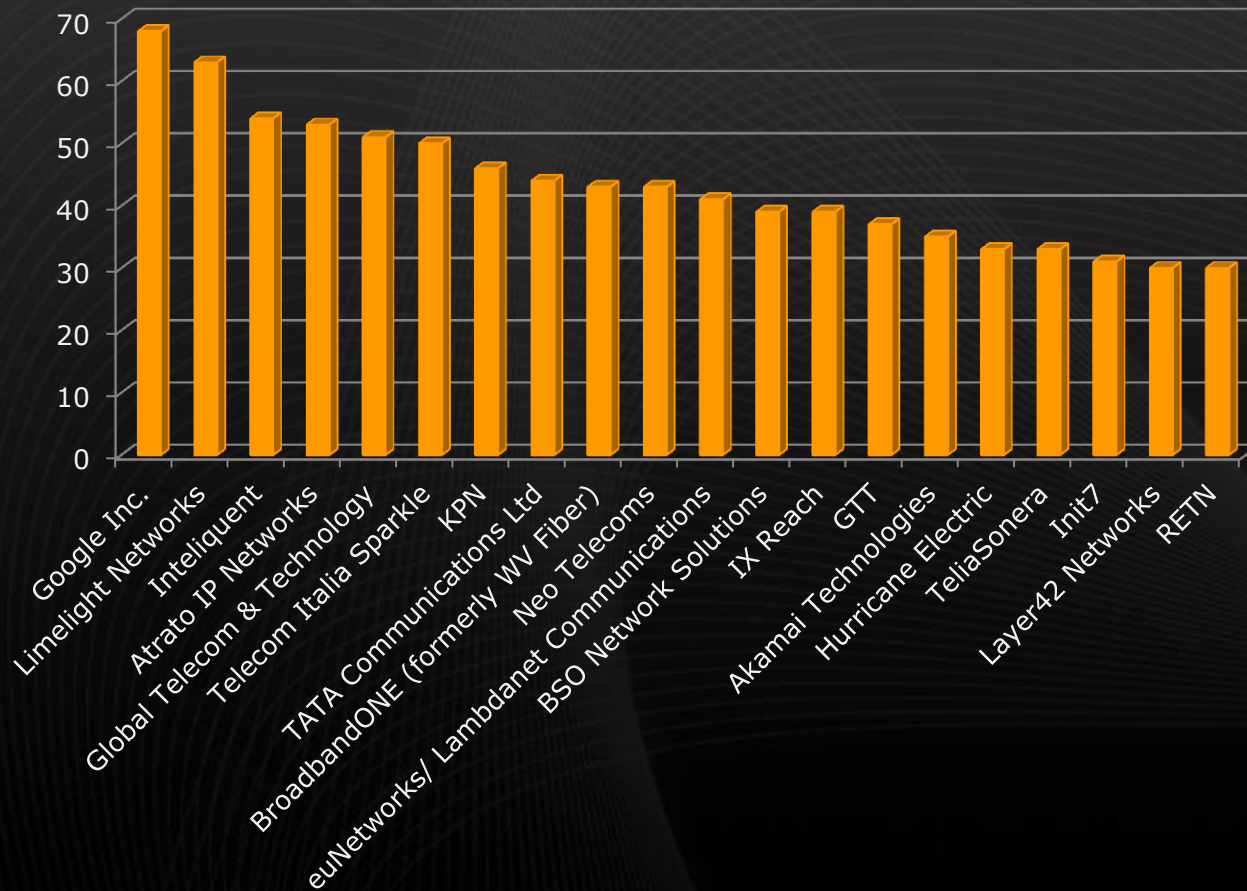
PeeringDB stats by networks @ IXPs

- Top 20 networks by IXP count



PeeringDB stats by networks @ facilities

- Top 20 networks by facility count



PeeringDB 2.0

- IXP/Colo operators have their own accounts to manage IXP/colo records
 - Limited to info about the IXP/Colo, not members or customers
- Per Network admin accounts
 - Add / modify / delete own accounts
- Multiple ASN's per account

PeeringDB 2.0

- Contact info not available to guest account
 - No more trolling for leads by non-members
- Better IPv6 & multiple IP support
 - e.g. ability to search for an IPv6 address

Questions

- Questions?