

PeeringDB and why everyone should use it

Hurricane Electric

IPv6 Native Backbone – Massive Peering!

PLNOG7 – Cracow

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Agenda

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- PeeringDB – What is it and why use it?
- PeeringDB & Peering Coordinators – together!
- Examples
- Summary



WHAT IS PEERINGDB

What is PeeringDB ?

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- A peering database
 - Every network should have access and an entry
 - Every network should keep their information maintained
- Created by and for peering coordinators
- A common place to publish information
 - Lets other networks know about your network
 - Lets other networks know how to contact you
 - First stop when deciding where and whom to peer with
- A reference database for:
 - Network Access Points (NAPs) / Internet eXchange (IX) points
 - Colocation facilities



Sample PeeringDB page

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Classic Menu Navigation

The screenshot shows the PeeringDB interface for the IXP Lagos. It features a left-hand navigation menu, a central details section, and a right-hand table of peers. Red arrows point from external labels to specific parts of the page: one to the navigation menu, one to the 'Members' table, and one to the 'Internet Exchange Information' section.

Navigation Menu:

- Home Page
- Logout
- Your Records
- Peering Record
- User Account
- Search
- Records
- Networks
- Exchange Points
- Facilities
- Common Points
- Suggestions
- Comments
- New Exchange
- New Facility
- Help
- FAQ
- Statistics

Public Exchange Point Detailed View:

Common Name	IXPN Lagos
Long Name	Internet Exchange Point of Nigeria
City	Lagos
Country	NG
Continental Region	Africa
Media Type	Ethernet
Protocols Supported	Unicast IPv4 <input checked="" type="checkbox"/> Multicast <input type="checkbox"/> IPv6 <input type="checkbox"/>
Contact Information	
Company Website	http://www.nixp.net
Traffic Statistics Website	
Technical E-Mail	support@nixp.net
Technical Phone	+234 (1) 7625117
Policy E-Mail	applyhelp@nixp.net
Policy Phone	+234 (1) 7625117

Internet Exchange Information:

Type	Address Block	Reverse DNS Scan
IPv4 Unicast	196.216.148.0/24	Link

Local Facilities:

Facility Name	City	Country	Participant Count
Medallion Lagos	Lagos	NG	1

List of Peers at this Exchange Point (Top):

Peer Name	Local ASN	IP Address	IPs
Google Inc.	15169	196.216.148.25	1

Members:

Members

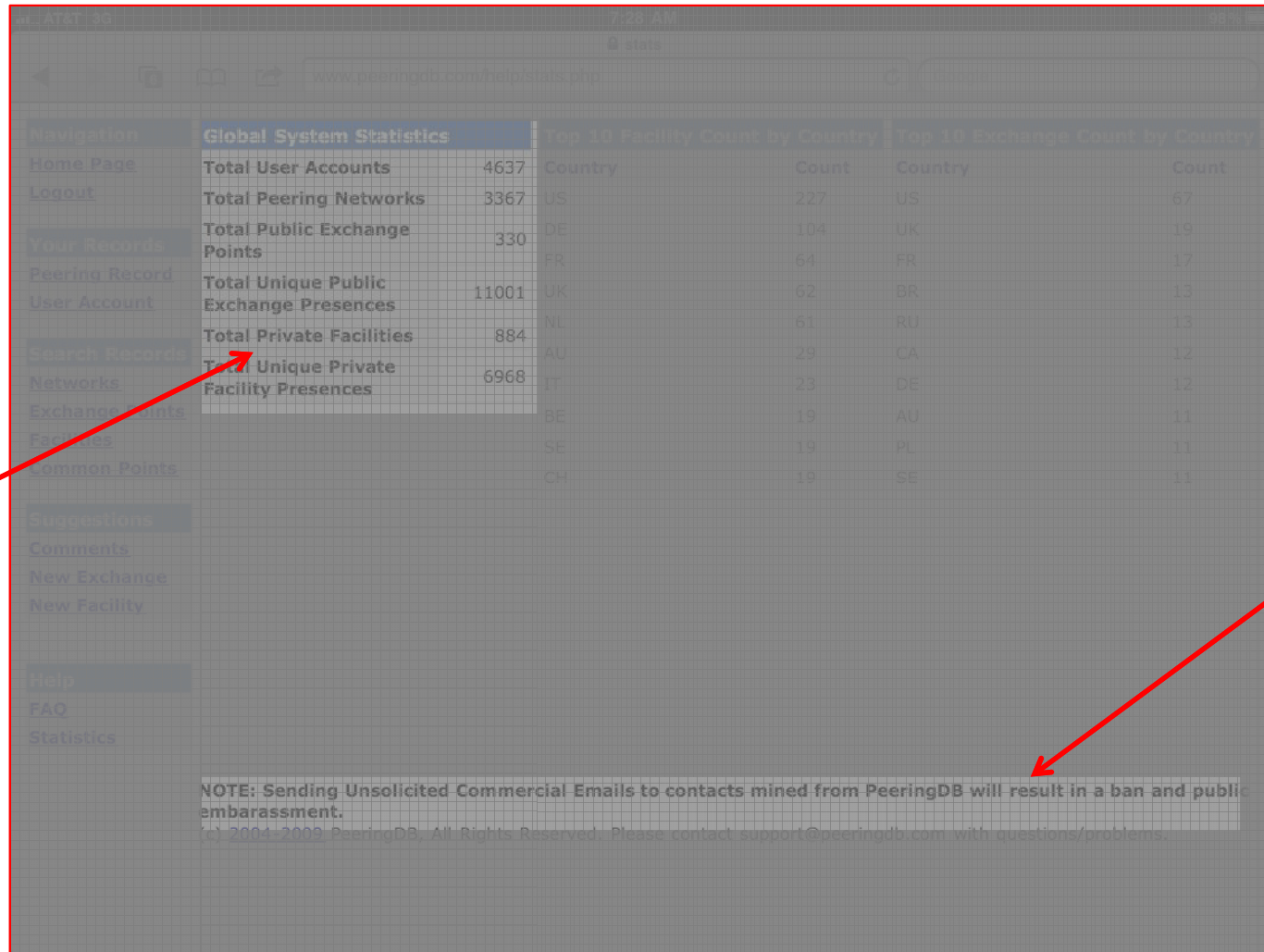
Members

Internet Exchange Information

Some important ground rules and benefits

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Lots of very useful peering information



The screenshot shows the PeeringDB website interface. On the left is a navigation menu with links like Home Page, Logout, Your Records, Peering Record, User Account, Search Records, Networks, Exchange Points, Facilities, Common Points, Suggestions, Comments, New Exchange, New Facility, Help, FAQ, and Statistics. The main content area is divided into four sections: Global System Statistics, Top 10 Facility Count by Country, Top 10 Exchange Count by Country, and a footer note. A red arrow points from the text 'Lots of very useful peering information' to the 'Search Records' link in the navigation menu. Another red arrow points from the text 'Don't abuse this information' to the footer note.

Global System Statistics		Top 10 Facility Count by Country		Top 10 Exchange Count by Country	
		Country	Count	Country	Count
Total User Accounts	4637	US	227	US	67
Total Peering Networks	3367	DE	104	UK	19
Total Public Exchange Points	330	FR	64	FR	17
Total Unique Public Exchange Presences	11001	UK	62	BR	13
Total Private Facilities	884	NL	61	RU	13
Total Unique Private Facility Presences	6968	AU	29	CA	12
		IT	23	DE	12
		BE	19	AU	11
		SE	19	PL	11
		CH	19	SE	11

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.

Don't abuse this information

Getting started with PeeringDB

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Guest access with “guest” “guest”

The screenshot shows the PeeringDB Login page. At the top, there is a 'PeeringDB Login' section with input fields for 'Username' and 'Password', and a 'Login' button. Below this, there is a paragraph explaining the project's purpose. Then, there is a section titled 'If you would like a read-only view of the data contained here without creating an account, you may log in using:' followed by 'Username: guest' and 'Password: guest'. Below that, there is a section for creating an account with a 'register' link. At the bottom, there is a note about reading the FAQ and contacting support.

Annotations on the screenshot:

- A red arrow points from the 'Try it!' text to the 'Login' button.
- A red arrow points from the 'Apply for access here' text to the 'register' link.
- A red arrow points from the 'Guest access with “guest” “guest”' text to the 'Username: guest' and 'Password: guest' fields.

Try it!

Apply for access here

USING PEERINGDB

Getting started with PeeringDB

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- Navigate to <http://www.peeringdb.com/>
 - Register a user account
 - Use email address associated with ASN
- Who should register?
 - Peering coordinators, network engineers, others
- Attach user account to network record
 - If one already exists for your company, you will need to be verified by the creator of the account
 - If one doesn't exist, you can create your company record



Using PeeringDB

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- Add contact information
 - Who to contact to ask for peering
 - Who to contact to address network issues
 - What kind of network do you run
- Where you peer
 - The most important part!
- Now start searching
 - ... and receiving peering requests!
 - Peering is all about communications



PeeringDB – Example network page

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Basic company information

Contact information

Exchange IP information

Facility information

AT&T 3G 7:27 AM 98%
Peering Network Record Maintenance
www.peeringdb.com/private/participant_maint.php Google

Navigation	Company Information	Public Peering Locations
Home Page	Company Name: Hurricane Electric	Public Exchange Point: AMS-IX
Logout	Primary ASN / IRR Record: 6939 AS-HURRICANE	ASN: 6939
My Records	Also Known As (Aliases):	IP Address: 195.69.145.150
Peering Records	Company Website URL: http://he.net	Mbit/sec: 20000
User Account	Approx Prefixes Announced: 32000	Delete: <input type="checkbox"/>
Search Records	Network Type: NSP (Network Service Provider) / Backbone	Public Exchange Point: AMS-IX
Networks	Approx Traffic Levels: 500-1000 Gbps	ASN: 6939
Exchange Points	Approx Traffic Ratios: Balanced	IP Address: 2001:7f8:1::a500:6939:
Facilities	Geographic Scope: Global	Mbit/sec: 20000
Common Points	Looking Glass URL (http): http://lg.he.net	Delete: <input type="checkbox"/>
Suggestions	Route Server URL (telnet): telnet://route-server.he.net	Public Exchange Point: BigApe
Comments	Public Notes:	ASN: 6939
New Exchange	Private Notes:	IP Address: 2001:458:26:2::500
New Facility	Protocols Supported: Unicast IPv4 <input checked="" type="checkbox"/> Multicast <input type="checkbox"/> IPv6 <input checked="" type="checkbox"/>	Mbit/sec: 1000
Help	Peering Policy Information	Delete: <input type="checkbox"/>
FAQ	Peering Policy URL: http://he.net/peering.html	Public Exchange Point: BigApe
Statistics	General Peering Policy: Open	ASN: 6939
	Multiple Locations: Preferred	IP Address: 198.32.238.16
	Ratio Requirements: No	Mbit/sec: 10000
	Contract Requirements: Not Required	Delete: <input type="checkbox"/>
	Peering Contacts	Public Exchange Point: CoreSite - Any2 L
	Role: Tech	ASN: 6939
	Contact Name: Jason Meyer	IP Address: 206.223.143.122
	Telephone: 510 580 4114	Mbit/sec: 10000
	E-Mail Address: jmeyer@he.net	Delete: <input type="checkbox"/>
		Public Exchange Point: CoreSite - Any2 L
	Role: Tech	ASN: 6939
	Contact Name: Peering	IP Address: 2001:504:13::1a
	Telephone: 510 580 4100	Mbit/sec: 10000
	E-Mail Address: peering@he.net	Delete: <input type="checkbox"/>
		Public Exchange Point: CoreSite - Any2 S
	Role: Ops	ASN: 6939
	Contact Name: NOC	IP Address: 2001:504:13:3::21
	Telephone: 510 580 4100	Mbit/sec: 10000
	E-Mail Address: noc@he.net	Delete: <input type="checkbox"/>
		Public Exchange Point: CoreSite - Any2 S
	Role: Policy	ASN: 6939
	Contact Name: Mike Leber	IP Address: 80.81.192.172
	Telephone:	Mbit/sec: 20000
	E-Mail Address: mleber@he.net	Delete: <input type="checkbox"/>
		Public Exchange Point: DE-CIX
	Role: Select	ASN: 6939
		IP Address: 2001:7f8::1b1b:0:1
		Mbit/sec: 10000
		Delete: <input type="checkbox"/>
		Public Exchange Point: DE-CIX
		ASN: 6939
		IP Address: 194.9.117.51
		Mbit/sec: 1000
		Delete: <input type="checkbox"/>
		Public Exchange Point: ECIX Berlin
		ASN: 6939
		IP Address: 2001:7f8:8:5:0:1b1b:0:
		Mbit/sec: 1000
		Delete: <input type="checkbox"/>
		Public Exchange Point: ECIX Berlin
		ASN: 6939
		IP Address:
		Mbit/sec:
		Delete:
		Select Value

1 2 3 4 5 6 7 8 9 of 9 Next > Last >> Update

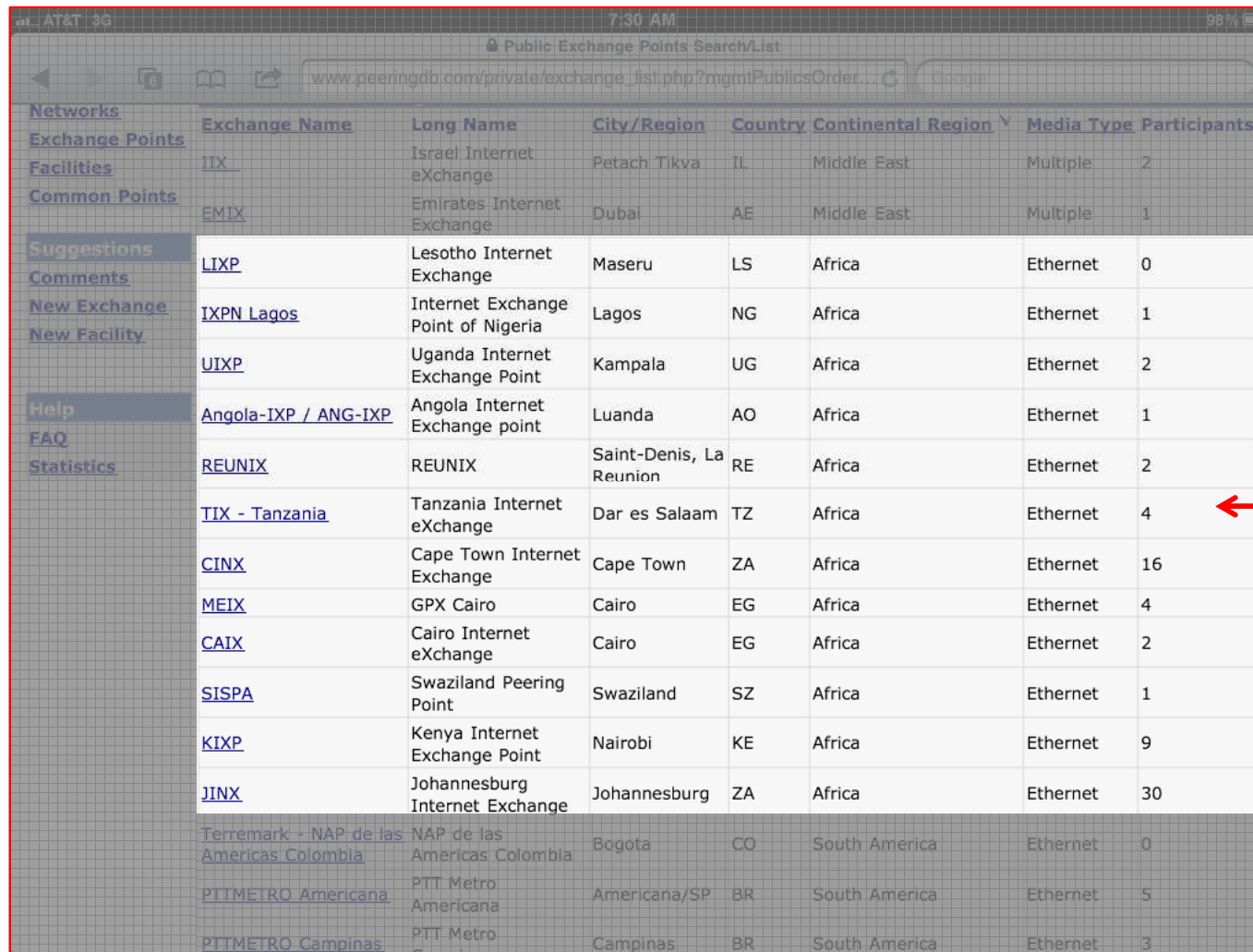
Private Peering Locations	Facility Name	ASN	SONET	Ethr	ATM	Delete
1102 Grand Kansas City	6939	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confluent Denver	6939	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CoreSite Los Angeles (One Wilshire)	6939	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CoreSite San Jose (S5)	6939	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equinix Ashburn (DC1-DC6)	6939	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equinix Chicago (CH1/CH2)	6939	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equinix Dallas (DA1)	6939	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equinix Los Angeles (LA1)	6939	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equinix New York (111 8th)	6939	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equinix Palo Alto (SV8)	6939	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equinix San Jose (SV1/5)	6939	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equinix Seattle (SE2/3)	6939	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select Value			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1 2 of 2 Next > Last >> Update



PeeringDB – Listed IX's in Africa

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Exchange Name	Long Name	City/Region	Country	Continental Region	Media Type	Participants
IIX	Israel Internet eXchange	Petach Tikva	IL	Middle East	Multiple	2
EMIX	Emirates Internet Exchange	Dubai	AE	Middle East	Multiple	1
LIXP	Lesotho Internet Exchange	Maseru	LS	Africa	Ethernet	0
IXPN Lagos	Internet Exchange Point of Nigeria	Lagos	NG	Africa	Ethernet	1
UIXP	Uganda Internet Exchange Point	Kampala	UG	Africa	Ethernet	2
Angola-IXP / ANG-IXP	Angola Internet Exchange point	Luanda	AO	Africa	Ethernet	1
REUNIX	REUNIX	Saint-Denis, La Reunion	RE	Africa	Ethernet	2
TIX - Tanzania	Tanzania Internet eXchange	Dar es Salaam	TZ	Africa	Ethernet	4
CINX	Cape Town Internet Exchange	Cape Town	ZA	Africa	Ethernet	16
MEIX	GPX Cairo	Cairo	EG	Africa	Ethernet	4
CAIX	Cairo Internet eXchange	Cairo	EG	Africa	Ethernet	2
SISPA	Swaziland Peering Point	Swaziland	SZ	Africa	Ethernet	1
KIXP	Kenya Internet Exchange Point	Nairobi	KE	Africa	Ethernet	9
JINX	Johannesburg Internet Exchange	Johannesburg	ZA	Africa	Ethernet	30
Terremark - NAP de las Americas Colombia	NAP de las Americas Colombia	Bogota	CO	South America	Ethernet	0
PTTMETRO Americana	PTT Metro Americana	Americana/SP	BR	South America	Ethernet	5
PTTMETRO Campinas	PTT Metro Campinas	Campinas	BR	South America	Ethernet	3

There are more IXs in Africa



PeeringDB – Comparing the listings

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PeeringDB: Public Exchange Point Detailed View

Common Name: IXPN Lagos
Long Name: Internet Exchange Point of Nigeria
City: Lagos
Country: NG
Continental Region: Africa
Media Type: Ethernet
Protocols Supported: Unicast IPv4 ☒ Multicast ☐ IPv6 ☐
Contact Information:
Company Website: <http://www.nixp.net>
Traffic Statistics Website:
Technical E-Mail: support@nixp.net
Technical Phone: +234 (1) 7625117
Policy E-Mail: applyhelp@nixp.net
Policy Phone: +234 (1) 7625117
IP Address Blocks:
Type: Address Block: Reverse DNS Scan
IPv4 Unicast: 196.216.148.0/24 [Link](#)
Local Facilities:
Facility Name: City: Country: Participant Count
Medallion Lagos: Lagos: NG: 1

List of Peers at this Exchange Point

Peer Name	Local ASN	IP Address
Google Inc.	15169	196.216.148.2

Our Members

Member Name	ASN	IP Address
1 Tara Systems	30984	196.216.148.1
2 Cyberspace/Visafone	20598	196.216.148.2
3 Starcomms	33776	196.216.148.3
4 Netcomm	30998	196.216.148.4
5 Linkserve	36927	196.216.148.5
6 21st Century	25163	196.216.148.6
7 MTS First Wireless		196.216.148.7
8 NIRA	36938	196.216.148.8
9 Gateway	16284	196.216.148.9
10 IT Click	36932	196.216.148.10
11 Internet Solution,Nigeria	30988	196.216.148.11
12 Swift Networks	36923	196.216.148.12
13 Skannet	21452	196.216.148.13
14 PeaceGlobal	47348	196.216.148.14
15 IXPN	36932	196.216.148.15
16 KKON	36920	196.216.148.16
17 VDT	37088	196.216.148.17
18 IPNX	29091	196.216.148.18
19 Zain		196.216.148.19
20 UNILAG	37170	196.216.148.20
21 ICNL	36932	196.216.148.21
22 CHAMS	37152	196.216.148.22
23 Cobranet	35074	196.216.148.23
24 Broadbase	37280	196.216.148.24
25 Google	15169	196.216.148.25
26 Suburban	37004	196.216.148.26
27 Simbanet	37200	196.216.148.27
28 Medallion	37345	196.216.148.28
29 GUAP	37295	196.216.148.29
30 Main One	37282	196.216.148.30

One network listed vs. 30 networks listed!

PeeringDB – Comparing the listings

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PeeringDB: Public Exchange Point Detailed View

Peer Name	Local ASN	IP Address
CityNet Host	33785	196.223.7.5
ISC	1280	196.223.7.2
Verisign	1342	196.223.7.8

GPX: MEIX Network Providers

- Telecom Egypt
- Internet Systems Consortium
- VeriSign
- EgyNet
- InterNet Egypt
- LINKdotNET
- Nile On Line
- Raya Telecom
- TE Data
- Noor

Three network listed vs. 10 networks listed!

PeeringDB – Comparing the listings

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[Logout](#)

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[New Facility](#)

[Help](#)
[FAQ](#)
[Statistics](#)

Public Exchange Point Detailed View
Common Name PLIX
Long Name Polish Internet Exchange
City Warsaw/Poland
Country PL
Continental Region Europe
Media Type Ethernet
Protocols Supported Unicast IPv4 ☒ Multicast ☒ IPv6 ☒
Contact Information
Company Website <http://www.plix.pl/>
Traffic Statistics Website
Technical E-Mail noc@plix.pl
Technical Phone +48224273999
Policy E-Mail noc@plix.pl
Policy Phone +48224273999
IP Address Blocks

Type	Address Block	Reverse DNS Scan
IPv4 Unicast	195.182.218.0/23	Link
IPv6 Unicast	2001:7f8:42::/48	Unsupported

Local Facilities

Facility Name	City	Country	Participant Count
LIM Warsaw	Warsaw	PL	18
PLIX DC1	Warsaw	PL	1

List of Peers at this Exchange Point (Total: 38)

Peer Name	Loca
AC Systemy Komputerowe Stanisław Bor...	3943
Agora	8535
Akamai Technologies	2094
ATM S.A.	2472
Atrato IP Networks	5580
CIS-NEPHAX	4333
ComNet Adam Rak	3511
Crowley Data Poland Sp. z o.o.	1296
DCENTER.PL	4989
E4A s.r.l.	3469
ETOP Sp. z o.o.	2085
EuroTransit GmbH	3392
Globalcom Ltd.	4297
Google Inc.	1516
GTS Poland	8246
Init7	1303
INOTEL S.A.	4451
Interactive 3D BV	4954
ISC	1280
LANet Sp. z o.o.	3894
Leaseweb	1626
Linx Telecommunications BV	3327
Maverick	3468

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PLIX – Polish Internet eXchange
 http://plix.pl/pl/member
 Google

175	wavenet WaveNet Sp. z o.o.	AS30726	open
176	WDM Computers Maria Jaroslawska	AS47329	open
177	WR.PL Wirtualna Polska S.A.	AS12827	open
178	WIT Wyższa Szkoła Informatyki Stosowanej i Zarządzania	AS20555	open
179	xnet X-NET	AS34209	open
180	XENIUM XENIUM	AS42204	open
181	YURECO Yureco S.A.	AS50387	open
182	zamekNet zamekNet	AS43371	open
183	ZETO-SA Zespół Efektywnych Technik Obliczeniowych Spółka Akcyjna	AS21404	open
184	ZETO ZETO-RZESZÓW Sp. z o.o.	AS42490	open
185	ZIGZAG ZIGZAG Sp. z o.o.	AS15652	open

PLIX Sp. z o.o. Strona Główna Wiadomości Uczestnicy Statystyki Narzędzia Koinkacja TVX Pomoc Kontakt

38 network listed vs. 185 networks listed!

PeeringDB – why is IX data different?

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- PeeringDB is maintained by it's peering users
 - It's not maintained by the IXs
 - Some IXs have good data; some don't
- PeeringDB entries can't be added by IXs
 - Your data is your data
- PeeringDB is maintained by its users
 - Administrators and developers are from peering community



SUMMARY

Summary

NATIVE **IPv6**
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- PeeringDB is a vital tool
 - It makes a network and a peering point function
- Never underestimate the value of “marketing” your network
 - Peering is about relationships (people and packets)
- PeeringDB is free!
- PeeringDB is operated by peering people
 - It's value is well understood



Q&A

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Contact:

support@peeringdb.com

