

German Internet Exchange



DeNOG 1 Make yourself attractive for peering

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Making yourself attractive for peering



Goal:

• Increase your peering-success-rate

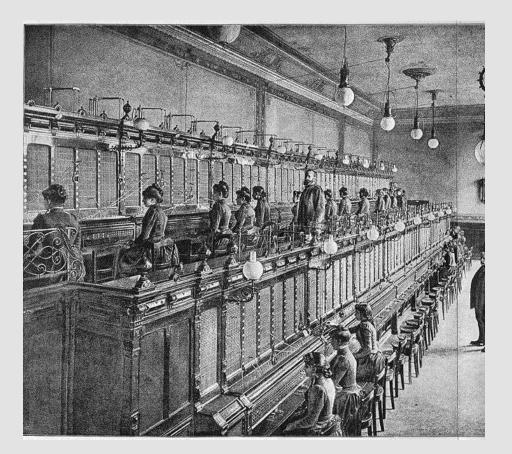


Three Basic Rules

- Be available!
- Know your network!
- Be professional!



Be reachable and available!



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Be reachable and available!

- Give your peers multiple ways to contact you
 - in case of problems with the peering itself
 - in case of a network attack
 - to announce maintenances
- Why not setup a special webpage for your peers?
 - Check <u>http://www.lambdanet.de/index.php?p=200&l=1</u>
 - ...in English!
 - Stating your peering policy and how to contact you
 - Another example: http://www.corp.att.com/peering/



Your peers should be able to contact you 24/7

- by email
 - usualy peering@.... is used
- by phone
 - The phone number you give your peers must be worldwide reachable
 - Make sure the person who picks up the phone knows what peering is
 - No robots which require a customer number!
 - No voice menu in only your local language!



Publish your contact information

- You can use the RIPE whois-database:
 - You have an entry for your AS anyway
 - Keep it up to date and put in good contact information as well
 - For example a role object of your peering-team
- Use PeeringDB
 - THE place to publish peering information
 - Check <u>http://www.peeringdb.com</u>
 - Have a look!



RIPE Object Example

• whois –h whois.ripe.net AS5669

aut-num:	AS5669
as-name:	VIA-NET-WORKS-AS
[]	
remarks:	
remarks:	Peering requests to: peering@psineteurope.com
remarks:	Network problems to: noc@vianetworks.com
remarks:	Corporate information : http://www.vianetworks.com/
remarks:	Network information : http://noc.vianw.net/
remarks:	
[]	

- Good: all relevant information is there
- Bad: its hopelessly outdated
- Conclusion: Published contact information has to be kept up to date

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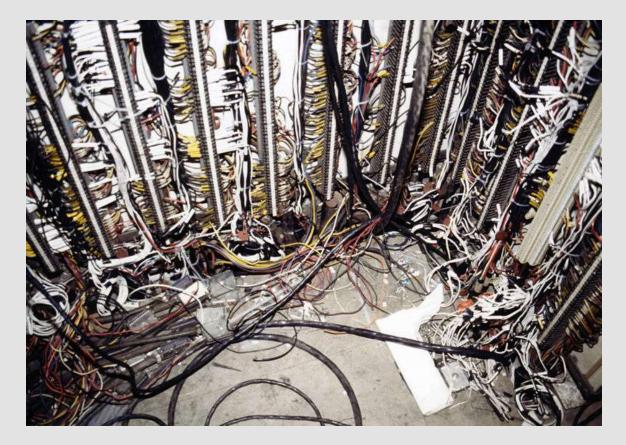


Publish your contact information (2)

- Make sure the Internet Exchanges where you peer have your contact information too
- Most exchanges publish an operational contact list of all its customers
- For example DE-CIX:
 - Customer list with AS numbers and links to RIPE in the public area
 - Detailed operational contact list including 24/7 NOC phone numbers in the "customers only" area
 - Customers can use an online form to update their entry.



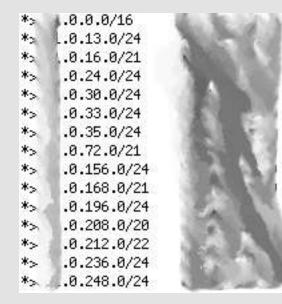
Know your network

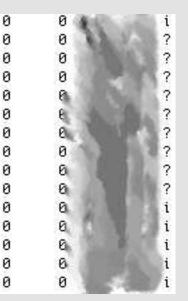




Know your network

• Would you peer with this network?







Know your network

- Make sure your BGP announcements are always "clean"
 - Aggregate!
 - Make sure your peers know how many prefixes to expect
 - Do not announce anything smaller than /24 into the global routing table
- Know who your "special" customers are
 - Internet cafés
 - "Marketing" agencies ("" intentional)
 - Gambling sites



Be professional





Be professional

- A peer contacts you because from one of your customers an attack against him originates. Make your choice:
 - "Go away. The customer pays me and you do not."
 - "I will contact the customer and make sure the attack stops"

Correct choice



Be professional

- Document your peerings
 - in your AS-Object in the RIPE-Database
- Keep your peers up to date
 - Announce <u>relevant</u> maintenances
 - in English
 - in an email with an useful subject, **not** in an attachment
 - if you give a timeframe, include local time **and UTC**
 - Note which AS, ports, etc. are affected
 - Don't be too verbose or everything gets ignored
 - Do <u>not</u> announce every new prefix you are advertising but <u>do</u> document your networks in the RIPE-Database



Be professional

- If you have an open peering policy, stop listening
- If you have a restricted peering policy:
 - Respond to **every** request for peering.
 - Have a business process on how to approve peerings
 - **Publish** the process and follow it. Every time.
 - If you deny someone peering, be polite, professional and explain which criteria they did not meet
 - If they improve to meet your criteria, give them peering.



Be professional – Peering Contracts

- Some companies require a written contract for peering... usually those with a large legal department.
- For you legal guys listening or reading the slides:
 I do not give any legal advise here!
- A peering contract is not a bad thing, but
 - It does not protect you from being depeered
 - It complicates setting up new peerings (in case you WANT new peerings)
 - I have never experienced that the legal folks approved any peering contract without changes.
- If someone asks you to sign their peering contract, why not...
 - ask them to sign yours (if you have one, this shifts the workload to **their** legal department)
 - ask them to setup the peering now, because your legal department is so slow responding (all legal departments are)



Thanks ! Questions??

DENOG Homepage: http://www.denog.de

Visit Peering-DB: http://www.peeringdb.com

Join DE-CIX: http://www.de-cix.net

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