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The Peering Toolbox

Documenting Peering Best Practices

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Traditional Transit

20+ years ago

- ISPs provide Internet transit to organisations (content providers and end-users)
- Enterprise networks bought their Internet access from access and transit providers

What has happened?

- Internet has become an essential part of every organisation's services, so they are taking more control over it
- Businesses needed to optimise their services

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What's the Problem?

- Growth in the importance of Internet to business operations is driving more enterprise networks to manage their own connection to the internet

- Managing this comes with risk

- Now there's more than one vendor relationship:
  - IXPs
  - Direct Peers

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What's the Problem?

- Enterprises now take on roles previously the responsibility of their ISP:
  - Having the right resources: IP Addresses, ASNs
  - Managing their peers and related costs
  - How to peer and with whom?
  - Understanding the peering community
- There's A LOT to learn:
  - Where to start
  - Who to speak to
  - What are the best practices?
  - How to deal with network problems & outages?
- Solution?

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Peering Toolbox

Community Focused Learning Tool

peeringtoolbox.euro-ix.net

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What is the Peering Toolbox?

By the Community

- Community focused Euro-IX project
- Organisations involved include LINX, NAPAfrica, Microsoft, Amazon, INEX

Aims

- Provide a learning structure and best practice information for new entrants into the interconnection community

Aims

- The toolbox will act as a reference/guide that IXPs and networks can point others to for best practice information and learn how meet the IXP and peers' requirements

Peering Toolbox

- There's already a lot of good work done by the community explaining how peering works and how to go about peering
    - We are working to pull it together and make it available in one place
    - The toolbox is intended to be the reference point for best practice information.

- Target audience:
    - Everyone involved with peering!
    - Which means: service providers, enterprises, content providers, research & education networks, IXPs,...

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Peering Toolbox

- Website focused on learning:
  - Short sections with clear explanations of each topic
  - Easy for new entrants to discover what they need to make the best decisions for their network
  - Easy for organisations already peering to learn about current best practices, keep up to date with technology, and help with troubleshooting connectivity and reachability issues
  - Advice from experienced peers sharing tips and tricks
  - Use of the IXPDB and the PeeringDB

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Euro-IX Peering Toolbox

What is the Peering Toolbox?

What is the Peering Toolbox?

The Peering Toolbox is designed to be a quick access reference guide to network operators who want to understand the steps need to go through to find and set up peering for their network with other infrastructure operators.

Our Services

Beginner

If you are new to peering, this is the section of the Toolbox for you.

Learn more

Intermediate

If you know what needs to be done to set up peering with another entity, but would like a ready reference for verification of the steps you need to take, this is the section for you.

Learn more

Advanced

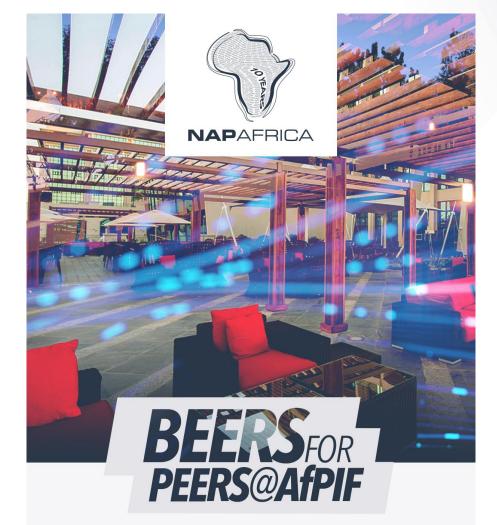For peering experts, a repository of tips, tricks, advice, troubleshooting, good practice, etc.

Learn more

Peering Toolbox – Helping out!

- Looking for community members to help with contributions to improve the Toolbox:
  - Peering advice
  - Blog posts
  - Peering coordinator interviews
  - Technical How-To's
  - Ongoing improvements to the content
- Contact us: peeringtoolbox@lists.euro-ix.net

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Thank you

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