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The Peering Toolbox

Documenting Peering Best Practices

SANOG 38

Philip Smith – Euro-IX

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

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

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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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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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