IPv6 numbering at Netnod

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IX LANs

- Very straightforward

- Apply for your IPv6 allocation from RIPE

  - Will be a /64 for a single LAN IX

  - Or /48

- We then assigned /64 per VLAN (there are two VLANs per site, MTU1500 and MTU4470)

- We are running IPv6 on the same infrastructure as IPv4 including VLANs

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Options for numbering

- EUI64

  - Not realistic as you need persistent addresses for BGP sessions

  - Even with static MACs

- Link-local

  - Same as above

- Static addresses

  - Only realistic alternative

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Static addresses

- Does allow you to do various encodings

  - AS numbers for example

- We decided for static addresses

  - Each ISP will get a static IPv6 address from each /64

  - For example 2001:7f8:d:ff::73/64

  - The last "octet" matches that of IPv4

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Questions?

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