A Basic Guideline for Listing ISPs that Run IPv6
draft-kawamura-ipv6-isp-listings-00

v6ops IETF78

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Lists of ISPs with IPv6 enabled

• There are many of them
  • [http://ipv6forum.org/ipv6_enabled/](http://ipv6forum.org/ipv6_enabled/)
  • [http://labs.ripe.net/content/ipv6-ripeness/](http://labs.ripe.net/content/ipv6-ripeness/)
    - no specific ISP names in ripeness
  • [http://ipv6.he.net/certification/](http://ipv6.he.net/certification/)
  • and more...

• Some are just a collection of links, some give logos, certificates.
What criteria do these listings use?

- Few examples
  - Is there a valid IPv6 prefix with a valid AS routing it? (ipv6 forum, ripeness)
  
  - Is there an route6 object in the IRR? (ripeness)

- Is reverse DNS setup? (ripeness)

- Is DNS accessible via IPv6 (SixXS)

- Some lists do not do much checking
  - You can get your name on it even if you don’t provide any IPv6 service.
What this draft is about

• Introduces some of the IPv6 enabled ISP listings and its checking criteria.

-> Only for discussion purposes.

• Defines a common checking criteria (a guideline) for these listing to use.
  • What people would expect from an “ipv6 ISP”
  • The things that you would at least need to have in order to be functional as an IPv6 ISP.
  • Requirements that are common to any type of ISP, and not go into individual products.
Advantages of having this

- Less confusion for users.

- Measurement of who’s “really” deploying.

- Act as minimum requirement for ISPs. Helps small ISPs that haven’t started IPv6 yet.
Criteria written in draft

• BASIC: bare minimum requirement
  • Have a PA or PI
  • Prefix is visible in at least one routing db
  • Have at least one server that responds to IPv6

• Advanced: functioning as ISP
  • reverse DNS
  • DNS resolvers accessible via IPv6 transport
  • PMTUD functional
  • More prefix visibility
Discussions on list

- Suggestions on list
  - No PI
  - PA with assignment activity
  - SMTP relay/ submission
  - POP/IMAP support
  - Native upstream connection
Questions to the WG

• Scope
  • “This guideline can be used to check any LIR or a PI address holder, that claims to be an ISP.” Is this the right scope?

• Criteria
  • Connectivity to an Internet Exchange necessary?
  • Customer support availability necessary?
  • PMTUD functionality necessary?
  • Anything else missing?
Status of the draft

- draft-kawamura-ipv6-isp-listings-00
  - Independent submission

- Is this worth working on some more?
  - Would a simple minimum requirements draft be more sensible?

- Comments are greatly appreciated.
Thanks to...

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  -- draft-ietf-v6ops-isp-scenarios

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  -- thanks for the comments on the list

- Task Force on IPv4 Address Exhaustion, Japan