

# 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/>
    - no specific ISP names in ripeness
  - [http://www.sixxs.net/wiki/IPv6\\_Enabled\\_Service\\_Providers](http://www.sixxs.net/wiki/IPv6_Enabled_Service_Providers)
  - <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.

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