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## Updates on IPv6Fix

<<http://v6fix.net/wide-draft-v6fix-en>>

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## What's IPv6Fix?

- A new activity in the WIDE project
  - Fix problems obstructing migration to IPv6
  - Documentation (almost done, continued)
    - draft-ietf-dnsop-misbehavior-against-aaaa
    - <http://v6fix.net/wide-draft-v6fix-en>
  - Collecting specific incidents (ongoing)
    - network measurement
    - analyze implementation behavior
  - Negotiating with operators/vendors (ongoing / future plans)
- IPv6Fix web page
  - <http://v6fix.net/>

## **Recent Result 1: On-link Assumption**

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- Examined various implementations
  - \*BSDs, Linux, MacOS-X, Solaris, Windows XP
  - Result was not bad
    - problem doesn't exist, or
    - there is workaround
- Summarized the results at
  - <http://v6fix.net/wide-draft-v6fix-en>
  - with known workaround
- Correction/additional information are welcome

## **Recent Result 2: DNS Misbehavior Survey**

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- A collaborative research with JPRS
  - checked DNS domains / auth servers under ".JP"
  - using automatic test tool
    - send AAAA queries to "www.xxxxx.co.jp"
    - see what happens
    - summarize result
  - 0.04% domains / 0.11% servers had problems
  - contacted the administrators using SOA "RNAME"
    - several responses providing product information
    - information will be available at <http://v6fix.net/>

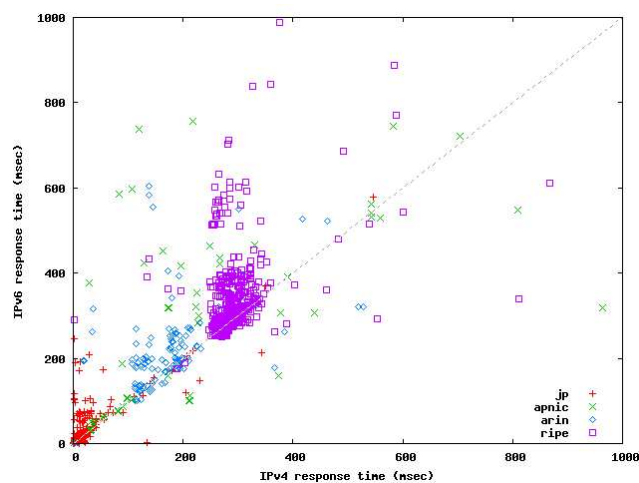
## Recent Result 3: IPv6 Network Quality

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- Measurement on IPv6 connectivity vs IPv4
  - based on ping RTT to particular destinations
  - from WIDE/IIJ/Consulintel
  - <http://mawi.wide.ad.jp/mawi/dualstack/>
- Most sites are good for both v4 and v6
  - still found poor results on v6 connectivity for some sites
- Feedback to site admins (planned)
  - 2005 2Q-3Q
  - check major paths around the site using traceroute
    - (identify suboptimal tunnel settings)
  - send the check result to the site

## IPv6 Network Quality (from WIDE, Jan05)

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## Next Steps

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- Further investigation
  - DNS/network quality/Firewalls
- Release product information (soon)
- Ask vendors for improvements
  - Ongoing: DNS
  - Planned: firewall, network quality
- Please help us
  - further check/measurement on DNS
    - collaboration with other TLDs
    - release the test tool
  - specific product / workaround information
- Public ML for open discussion
  - [users@ipv6.org](mailto:users@ipv6.org)?