IETF Activities Update

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Note

- There is no official IETF Liaison to ARIN or any RIR
- This is all my opinion and my view and I am not covering everything just highlights
- Solution You should know I like funny quotes
- I hope you enjoy it
- Your feedback is greatly appreciated
- If you were there and have an interesting item I missed please speak up

Highlights

 draft-gashinsky-v6nd-enhance-00
 Interesting draft with old problem enhanced by IPv6 large subnet sizes.

- Shared Transition Space
- WHOIS-based Extensible Internet Registration Data Service (WEIRDS)

http://tools.ietf.org/html/draft-kucherawyweirds-requirements-01

- Most unusual speaker
 - Blue Cross Blue Shield (wanted IPv6 IP Identification Field change)

IEPG – World IPv6 Day updates

- AAA records for major sites: were about 250 before, peaked during v6 day and then dropped but higher around 300
- TCP connection tests hardly any difference in delays.
- It's hard to tell if a client does IPv6 because a lot of them will default to v4 if v4 is available.
- 6 to 4 is a lot slower unless relays are close

ISOC IPv6 Workshop

- This was a non-IETF event put on by ISOC.
- This time topic was "How do we get there from here?"
- Geoff Huston was the optimist

ISOC IPv6 Workshop Quotes

- Installed base has so much inertia that it shrugs off innovation
- "There is no enemy besides us".
- "Carriage providers have always wanted to blackmail content"
- "we are suffering a success disaster"
- Seriously though it seems like a chicken and egg problem.
 - Providers say customers aren't asking for it
 - Customers say that providers don't have it.

Internet Area

- Didn't meet in Quebec City
- Active drafts
 - draft-ietf-intarea-ipv4-id-update-02
 - Updated Specification of the IPv4 ID Field
 - draft-ietf-intarea-ipv6-required-01
 - IPv6 Support Required for all IP-capable nodes
 - draft-ietf-intarea-router-alert-considerations-10
 - IP Router Alert Considerations and Usage

Multicast Transition (multitrans)

IPv4-IPv6 Multicast Scenarios-CJ IPvX to IpvY IPvX to IPvY then back to IPvX Scenario where you have a lot of v6 receivers but you're still streaming v4 Mechanisms need to be transparent to senders and receivers

RENUM WG

- RENUM is now a working group
- The problem is being broken down into smaller chunks
 Enterprise Network Renumbering Scenarios
 - draft-jiang-6renum-enterprise-00
 - IPv6 Site Renumbering Gap Analysis
 - draft-liu-6renum-gap-analysis-01
- I would like to encourage folks in this community to participate.

Routing Area Working Group

- GreenTE: Power-Aware Traffic Engineering
- Routing Area WG up to date information can be found here
 - http://tools.ietf.org/area/rtg

V6 Operations (V6OPS)

- Detailed update on World IPv6 Day
 A number of drafts on the day
 - draft-jjmb-v6ops-comcast-ipv6-experiences-01.txt
- IPv6 Day at Microsoft
 - Their gaming sites are still on v6 (xbox, etc)
 - 8% are successful on 6to4 (historic status not useful)
 - Biggest issue is access not fear
 - MS quote "that would be more towards no than a yes"

V6 Operations (V6OPS) Cont

- V6 Day notes
 Hurricane Electric significant 6to4 traffic
 Comcast
 - 50% left AAAA record in place
 - 6to4 doubled, native was 6x, 6rd doubled
- IPv6 IP Identification Field
 Request from BCBS of Michigan
 IPID used for diagnostics
- 40 different docs in this WG now
- 30 Updated since last IETF

Secure Inter-Domain Routing (sidr)

- There are many drafts under discussion
- BGPSEC draft is almost complete
- Several drafts relating to RPKI
- Several drafts relating to securing BGP
- http://tools.ietf.org/wg/sidr/

IPv6 Maintenance WG (6man)

- RFC3484 is revised all about how a host picks its default and which address to use v4 or v6
- Neighbor Un-reachability Detection is too impatient - working group document?
- IPv6 Router Solicitation Driven Access onsidered Harmful
- IPv6 ND Optimization for Energy Aware Devices
- 6Man Docs available here.
 - http://tools.ietf.org/wg/6man/

Ops Area WG

- Discussion of shared transition space draft. Consensus was to move it to WGLC after lengthy discussion.
 - There was a good concern about hosts assuming this block was global and using 6to4. No real answer from crowd
 - Discussion has continued on the mailing list. Drafts have been updated.

DNS Operations (DNSOP)

 This draft draft-michaelson-as112-ipv6-00.txt discusses another interesting scaling problem in IPv6. The IAB asked the IANA to delegate a list of reverse dns zones to keep them local in scope.
 http://tools.ietf.org/wg/dnsop/

"there's a difference between being incomplete and being wrong"

BEHAVE WG

- This group is all about address translation.
- Large Scale NAT Requirements
- NAT64 Discovery Heuristic
- Stateless Source Address Mapping for ICMPv6 Packets
- Revealing hosts sharing an IP addressing using TCP option
- Current info is available here http://tools.ietf.org/wg/behave/





References

- General WG Info:
 - http://datatracker.ietf.org/wg/ (Easiest to use)
- Internet Drafts:
 - http://tools.ietf.org/html
- IETF Daily Dose (quick tool to get an update): http://tools.ietf.org/dailydose/
- Upcoming meeting agenda:
 http://tools.ietf.org/agenda
- Upcoming BOFs Wiki:
 - http://tools.ietf.org/bof/trac/wiki
- Also IETF drafts now available as ebooks
 - http://www.fenron.net/~fenner/ietf/ietf-ebooks