IETF Activities Update

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ARIN XXIV
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This presentation is not an official IETF report.

There is no official IETF Liaison to ARIN or any RIR.

It is, however, believed to be accurate.

Errors are the sole responsibility of the authors.

This presentation is not a detailed review of documents mentioned.
Routing Area

Routing Area Working Group
- Multiple sessions at IETF meetings continue

Active Documents:
- *IP Fast Reroute Using Not-via Addresses (draft-ietf-rtgwg-ipfrr-notvia-addresses-04)*

IESG Processing
- *A Framework for Loop-free Convergence (draft-ietf-rtgwg-1f-conv-frmwk-06)*
IPv6 Maintenance WG (6man)

**Active documents:**

- "Solution approaches for address-selection problems" (draft-ietf-6man-addr-select-sol-02.txt)
- “IANA Allocation Guidelines for the IPv6 Routing Header (draft-ietf-6man-iana-routing-header-00) NEW
- “IPv6 Subnet Model: the Relationship between Links and (Subnet Prefixes draft-ietf-6man-ipv6-subnet-model-05)
- “IPv6 Node Requirements RFC 4294-bis (draft-ietf-6man-node-req-bis-03.txt)
- A Recommendation for IPv6 Address Text Representation (draft-ietf-6man-text-addr-representation-00)

**IESG processing:**

- Handling of overlapping IPv6 fragments (draft-ietf-6man-overlap-fragment-03)
**V6 Operations (V6OPS)**

**Active Drafts:**
- “Recommended Simple Security Capabilities in Customer Premises Equipment for Providing Residential IPv6 Internet Service” (v6ops-cpe-simple-security 07)
- “IPv6 CPE Router Recommendations” (v6ops-ipv6-cpe-router-01)
- Rogue IPv6 Router Advertisement Problem Statement (draft-ietf-v6ops-rogue-ra-00)
- “IPv6 RA-Guard” (v6ops-ra-guard-03)
- IPv6 Deployment in Internet Exchange Points (IXPs) (draft-ietf-v6ops-v6inixp-02.txt)

**Related drafts but not WG doc’s:**
- Emerging Service Provider Scenarios for IPv6 Deployment (draft-carpenter-v6ops-isp-scenarios-00)
Active document

"Socket Application Program Interface (API) for Multihoming Shim (draft-ietf-shim6-multihome-shim-api-09)"
Active Documents

- IPv6 Addressing of IPv4/IPv6 Translators (draft-ietf-behave-address-format-00.txt)
- DNS64: DNS extensions for Network Address Translation from IPv6 Clients to IPv4 Servers (draft-ietf-behave-dns-64-00)
- NAT64: Network Address and Protocol Translation from IPv6 Clients to IPv4 Servers (draft-ietf-behave-v6v4-xlate-stateful-02)
- Traversal Using Relays around NAT (TURN) Extension for IPv6 (draft-ietf-behave-turn-ipv6-07)
- Traversal Using Relays around NAT (TURN) Extensions for TCP Allocations (turn-tcp-04)
- Framework for IPv4/IPv6 Translation (draft-ietf-behave-v6v4-framework-01)
- IP/ICMP Translation Algorithm (draft-ietf-behave-v6v4-xlate-01)

IESG Processing

- “NAT Behavior Discovery Using STUN” (ietf-behave-nat-behavior-discovery)
- Traversal Using Relays around NAT (TURN): Relay Extensions to Session Traversal Utilities for NAT (STUN) (draft-ietf-behave-turn-16)
Secure Inter-Domain Routing (sidr)

Active documents:

- "An Infrastructure to Support Secure Internet Routing" (sidr-arch-08)
- “A Profile for Bogon Origin Attestations”(sidr-bogons-03)
- Certificate Policy (CP) for the Resource PKI (RPKI) (draft-ietf-sidr-cp-06.txt)
- A Profile for Resource Certificate Repository Structure (draft-ietf-sidr-repos-struct-03.txt)
- A Profile for X.509 PKIX Resource Certificates (draft-ietf-sidr-res-certs-17)
- A Protocol for Provisioning Resource Certificates (draft-ietf-sidr-rescerts-provisioning-05.txt)
- A Profile for Route Origin Authorizations (ROAs) (draft-ietf-sidr-roa-format-05.txt)
- Validation of Route Origination in BGP using the Resource Certificate PKI and ROAs (draft-ietf-sidr-roa-validation-03.txt)
- A Profile for Algorithms and Key Sizes for use in the Resource Public Key Infrastructure draft-ietf-sidr-rpki-algs-00.txt
- Manifests for the Resource Public Key Infrastructure (draft-ietf-sidr-rpki-manifests-05.txt)
- Securing RPSL Objects with RPKI Signatures (draft-ietf-sidr-rpsl-sig-01.txt)
- A Profile for Trust Anchor Material for the Resource Certificate PKI (draft-ietf-sidr-ta-02)
Active Docs:

- “Dual-stack lite broadband deployments post IPv4 exhaustion” (softwire-dual-stack-lite)
- “Load Balancing for Mesh Softwires” (softwire-lb)

Newly Published

- "BGP IPSec Tunnel Encapsulation Attribute" (RFC5566)
- Softwire Hub and Spoke Deployment Framework with Layer Two Tunneling Protocol Version 2 (RFC5571)
- Softwire Mesh Framework (RFC5565)
- Softwire Security Analysis and Requirements (RFC5619)
Active Documents:

- “AS112 Nameserver Operations” (dnsop-as112-ops-03)
- “I'm Being Attacked by PRISONER.IANA.ORG!” (dnsop-as112-ops-under-attack-03)
- “Requirements for Management of Name Servers for the DNS “ (dnsop-name-server-management-reqs-03)
DNS Extensions (DNSEXT)

Active Documents:

- DNS Transport over TCP (draft-ietf-dnsext-dns-tcp-requirements-00)
- Cryptographic Algorithm Identifier Allocation for DNSSEC (draft-ietf-dnsext-dnssec-alg-allocation-00)
- Clarifications and Implementation Notes for DNSSECbis (draft-ietf-dnsext-dnssec-bis-updates-09)
- Use of GOST signature algorithms in DNSKEY and RRSIG Resource Records for DNSSEC (draft-ietf-dnsext-dnssec-gost-01)
- DNS Security (DNSSEC) DNSKEY IANA Registry Algorithm Status Addition (draft-ietf-dnsext-dnssec-registry-fixes-00)
- Extension Mechanisms for DNS (EDNS0) (draft-ietf-dnsext-rfc2671bis-edns0-02)
- Update to DNAME Redirection in the DNS (draft-ietf-dnsext-rfc2672bis-dname-17)
- Handling of Unknown DNS Resource Record (RR) Types (draft-ietf-dnsext-rfc3597-bis-00.txt)
- Deprecation of HMAC-MD5 in DNS TSIG and TKEY Resource Records (draft-ietf-dnsext-tsig-md5-deprecated-03.txt)

RFC Editor’s Queue:

- Use of SHA-2 algorithms with RSA in DNSKEY and RRSIG Resource Records for DNSSEC draft-ietf-dnsext-dnssec-rsasha256-14
Active Documents


Newly published RFC

Remote Triggered Black Hole Filtering with Unicast Reverse Path Forwarding (uRPF) (RFC5635)
Global Routing Operations (GROW)

Active Documents:

- Requirements for the graceful shutdown of BGP sessions (draft-ietf-grow-bgp-graceful-shutdown-requirements-00.txt)
- Graceful BGP session shutdown (draft-ietf-grow-bgp-gshut-00)
- BGP Monitoring Protocol (draft-ietf-grow-bmp-02)
- MRT routing information export format (draft-ietf-grow-mrt-10.txt)
- GRE and IP-in-IP Tunnels for Virtual Aggregation (draft-ietf-grow-va-gre-00.txt)
- Proposal to use an inner MPLS label to identify the remote ASBR VA (draft-ietf-grow-va-mpls-innerlabel-00.txt)
- MPLS Tunnels for Virtual Aggregation (draft-ietf-grow-va-mpls-00.txt)
- Performance of Virtual Aggregation (draft-ietf-grow-va-perf-00.txt)
- FIB Suppression with Virtual Aggregation (draft-ietf-grow-va-00.txt)
Active Documents:

- LISP Alternative Topology (LISP+ALT) (draft-ietf-lisp-alt-01.txt)
- Interworking LISP with IPv4 and IPv6 (draft-ietf-lisp-interworking-00)
- LISP Map Server (draft-ietf-lisp-ms-04.txt)
- LISP for Multicast Environments (draft-ietf-lisp-multicast-02.txt)
- Locator/ID Separation Protocol (LISP) (draft-ietf-lisp-05.txt)
Next IETF: Nov 8-13, Hiroshima, Japan

IETF BOF WIKI summarizes recent and upcoming BOF activities:

- Includes (early) topics that might (or might not) eventually result in official BOFs

Officially approved BOFs (once known):

- Performance Metrics for Other Layers BOF
- https://datatracker.ietf.org/meeting/76/agenda.html
References

- General WG info:
  - http://tools.ietf.org/wg
  - http://tools.ietf.org/wg/fo%00 (for WG “foo”)?
- Internet Drafts:
- Upcoming meeting agenda:
  - http://tools.ietf.org/agenda
- Upcoming BOFs Wiki:
Thank you

Questions?