

IETF Activities Update

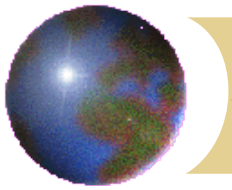
Marla Azinger

marla.azinger@frontiercorp.com

ARIN XXV

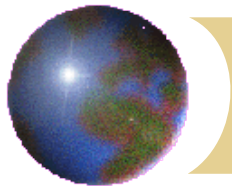
APR 20, 2010

Toronto



Note

- ✦ 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 author
- ✦ This presentation is not a detailed review of documents mentioned



Routing Area

✦ *Routing Area Working Group*

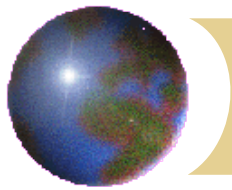
- ✦ Multiple sessions at IETF meetings continue

✦ *Active Documents:*

- ✦ *IP Fast Reroute Using Not-via Addresses (draft-ietf-rtgwg-ipfrr-notvia-addresses-05)*
- ✦ *Loop-free convergence using oFIB (draft-ietf-rtgwg-ordered-fib-03)*
- ✦ *Requirements for MPLS Over a Composite Link (draft-ietf-rtgwg-cl-requirement-00)*

✦ *Newly Published*

- ✦ *IP Fast Reroute Framework RFC 5714*
- ✦ *A Framework for Loop-Free Convergence RFC 5715*



IPv6 Maintenance WG (6man)

Active documents:

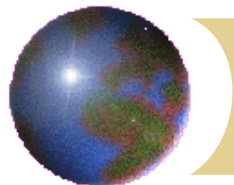
- ❖ "Solution approaches for address-selection problems" (draft-ietf-6man-addr-select-sol-03.txt) Just Died at IESG in March
- ❖ Considerations for IPv6 Address Selection Policy Changes (draft-ietf-6man-addr-select-considerations-00)
- ❖ IPv6 Router Advertisement Options for DNS Configuration RFC 5006-(bis draft-ietf-6man-dns-options-bis-00)
- ❖ Interface Identifier Assignment in IPv6 SLAAC (draft-ietf-6man-neighbor-inform-00)
- ❖ IPv6 Node Requirements RFC 4294-bis (draft-ietf-6man-node-req-bis-04.txt)

IESG processing:

- ❖ IPv6 Subnet Model: the Relationship between Links and Subnet Prefixes (draft-ietf-6man-ipv6-subnet-model-10)
- ❖ A Recommendation for IPv6 Address Text Representation (draft-ietf-6man-text-addr-representation-07)

RFC Editor Queue:

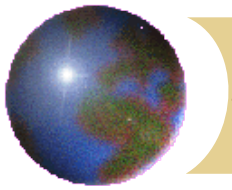
- ❖ *IANA Allocation Guidelines for the IPv6 Routing Header (draft-ietf-6man-iana-routing-header-00)*



V6 Operations (V6OPS)

Active Drafts:

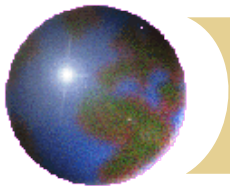
- ❖ **Recommended Simple Security Capabilities in Customer Premises Equipment for Providing Residential IPv6 Internet Service (draft-ietf-v6ops-cpe-simple-security-10)**
- ❖ **An Incremental Carrier-Grade NAT (CGN) for IPv6 Transition (draft-ietf-v6ops-incremental-cgn-00.txt)**
- ❖ **Basic Requirements for IPv6 Customer Edge Routers (draft-ietf-v6ops-ipv6-cpe-router-04)**
- ❖ **IPv6 RA-Guard (draft-ietf-v6ops-ra-guard-04.txt)**
- ❖ **Security Concerns With IP Tunneling (draft-ietf-v6ops-tunnel-security-concerns-02)**
- ❖ **IPv6 Deployment in Internet Exchange Points (IXPs) (draft-ietf-v6ops-v6inixp-05.txt)**



SHIM6 WG

Active document

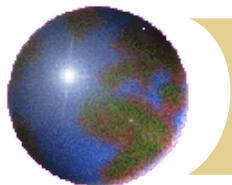
- ❏ Applicability Statement for the Level 3 Multihoming Shim Protocol (Shim6) (draft-ietf-shim6-applicability-05)
- ❏ Socket Application Program Interface (API) for Multihoming Shim (draft-ietf-shim6-multihome-shim-api-13)



BEHAVE WG




✚ *Active Documents*

- ✚ IPv6-to-IPv4 translation FTP considerations (draft-ietf-behave-ftp64-00.txt)
- ✚ Stream Control Transmission Protocol (SCTP) Network Address Translation (draft-ietf-behave-sctpnat-02.txt)
- ✚ Traversal Using Relays around NAT (TURN) Extension for IPv6 (draft-ietf-behave-turn-ipv6-09)
- ✚ Traversal Using Relays around NAT (TURN) Extensions for TCP Allocations (draft-ietf-behave-turn-tcp-06.txt)
- ✚ DNS64: DNS extensions for Network Address Translation from IPv6 Clients to IPv4 Servers (draft-ietf-behave-dns64-09) - AD Evaluation
- ✚ IPv6 Addressing of IPv4/IPv6 Translators (draft-ietf-behave-address-format-07.txt) - AD Evaluation
- ✚ Framework for IPv4/IPv6 Translation (draft-ietf-behave-v6v4-framework-08) - AD Evaluation
- ✚ IP/ICMP Translation Algorithm (draft-ietf-behave-v6v4-xlate-18) – AD Evaluation
- ✚ Stateful NAT64: Network Address and Protocol Translation from IPv6 Clients to IPv4 Servers (draft-ietf-behave-v6v4-xlate-stateful-11) – AD Evaluation




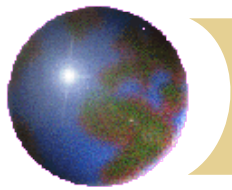
BEHAVE WG cont'

RFC Editor Queue

-  *NAT Behavior Discovery Using STUN (draft-ietf-behave-nat-behavior-discovery-08)*
-  *Test vectors for STUN (draft-ietf-behave-stun-test-vectors-04)*
-  *Traversal Using Relays around NAT (TURN): Relay Extensions to Session Traversal Utilities for NAT (STUN) (draft-ietf-behave-turn-16)*

IESG Processing

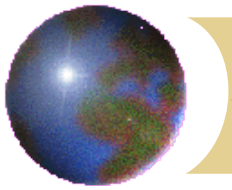
-  *Traversal Using Relays around NAT (TURN) Resolution Mechanism (draft-ietf-behave-turn-uri-10)*



Secure Inter-Domain Routing (sidr)

✦ *Active documents:*

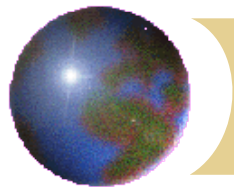
- ✦ "An Infrastructure to Support Secure Internet Routing" (sidr-arch-09)
- ✦ "Certificate Policy (CP) for the Resource PKI (RPKI) (draft-ietf-sidr-cp-08.txt)
- ✦ A Profile for Route Origin Authorizations (ROAs) (draft-ietf-sidr-roa-format-06.txt)
- ✦ Template for an Internet Registry's Certification Practice Statement (CPS) for the Resource PKI (RPKI) (draft-ietf-sidr-cps-irs-05.txt)
- ✦ Template for an Internet Service Provider's Certification Practice Statement (CPS) for the Resource PKI (RPKI) (draft-ietf-sidr-cps-isp-04.txt)
- ✦ Validation of Route Origination using the Resource Certificate PKI and ROAs (draft-ietf-sidr-roa-validation-05.txt)
- ✦ Manifests for the Resource Public Key Infrastructure (draft-ietf-sidr-rpki-manifests-06.txt)
- ✦ Securing RPSL Objects with RPKI Signatures (draft-ietf-sidr-rpsl-sig-02.txt)



Softwire






Active Docs:

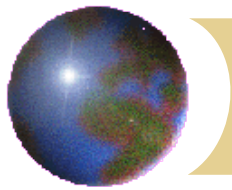
- ❏ *Dynamic Host Configuration Protocol for IPv6 (DHCPv6) Options for Dual- Stack Lite (draft-ietf-softwire-ds-lite-tunnel-option-02)*
- ❏ *Dual-Stack Lite Broadband Deployments Following IPv4 Exhaustion (draft-ietf-softwire-dual-stack-lite-04)*
- ❏ *IPv6 via IPv4 Service Provider Networks "6rd" (draft-ietf-softwire-ipv6-6rd-08)*



DNS Operations (DNSOP)

Active Documents:

-  *Locally-served DNS Zones (draft-ietf-dnsop-default-local-zones-12)*
-  *DNSSEC Signing Policy & Practice Statement Framework (draft-ietf-dnsop-dnssec-dps-framework-01)*
-  *DNSSEC Trust Anchor History Service (draft-ietf-dnsop-dnssec-trust-history-01)*
-  *Initializing a DNS Resolver with Priming Queries (draft-ietf-dnsop-resolver-priming-02)*
-  *DNSSEC Operational Practices, Version 2 (draft-ietf-dnsop-rfc4641bis-02)*



DNS Extensions (DNSEXT)

Active Documents:

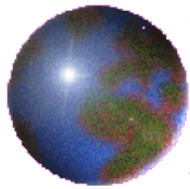
- ❖ DNS Transport over TCP - Implementation Requirements (draft-ietf-dnsex-tcp-requirements-03)
- ❖ Clarifications and Implementation Notes for DNSSECbis (draft-ietf-dnsex-t-dnssec-bis-updates-11)
- ❖ DNS Security (DNSSEC) DNSKEY IANA Registry Algorithm Status Addition (draft-ietf-dnsex-t-dnssec-registry-fixes-02)
- ❖ Extension Mechanisms for DNS (EDNS0) (draft-ietf-dnsex-t-rfc2671bis-edns0-03)
- ❖ Update to DNAME Redirection in the DNS (draft-ietf-dnsex-t-rfc2672bis-dname-18)

IESG Evaluation:

- ❖ *Cryptographic Algorithm Identifier Allocation for DNSSEC (draft-ietf-dnsex-t-dnssec-alg-allocation-03)*
- ❖ *Handling of Unknown DNS Resource Record (RR) Types (draft-ietf-dnsex-t-rfc3597-bis-02.txt)*

RFC Editor's Queue:

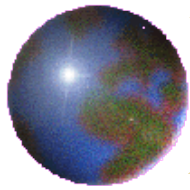
- ❖ *DNS Zone Transfer Protocol (AXFR) draft-ietf-dnsex-t-axfr-clarify-14*
- ❖ *Use of GOST signature algorithms in DNSKEY and RRSIG Resource Records for DNSSEC draft-ietf-dnsex-t-dnssec-gost-07*



Operational Security Capabilities for IP Networks (OPSEC)

Active Documents

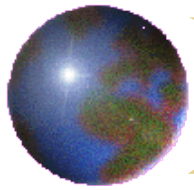
- ❖ *Security Best Practices Efforts and Documents (draft-ietf-opsec-efforts-11.txt)*
- ❖ *Recommendations for filtering ICMP messages (draft-ietf-opsec-icmp-filtering-01.txt)*
- ❖ *Cryptographic Authentication Algorithm Implementation Best Practices for Routing Protocols (draft-ietf-opsec-igp-crypto-requirements-00.txt)*
- ❖ *Security Assessment of the Internet Protocol version 4 (draft-ietf-opsec-ip-security-03.txt)*
- ❖ *Issues with existing Cryptographic Protection Methods for Routing Protocols (draft-ietf-opsec-routing-protocols-crypto-issues-03.txt)*



Global Routing Operations (GROW)

Active Documents:

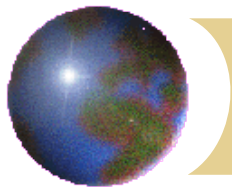
- ❖ *Requirements for the graceful shutdown of BGP sessions (draft-ietf-grow-bgp-graceful-shutdown-requirements-01.txt)*
- ❖ *Graceful BGP session shutdown (draft-ietf-grow-bgp-gshut-01)*
- ❖ *BGP Monitoring Protocol (draft-ietf-grow-bmp-03)*
- ❖ *MRT routing information export format (draft-ietf-grow-mrt-11.txt)*
- ❖ *Simple Virtual Aggregation (S-VA) (draft-ietf-grow-simple-va-00.txt)*
- ❖ *FIB Suppression with Virtual Aggregation (draft-ietf-grow-va-02.txt)*
- ❖ *Auto-Configuration in Virtual Aggregation (draft-ietf-grow-va-auto-01.txt)*



Locator/Identifier Separation (LISP)

Active Documents:

- ❖ Locator/ID Separation Protocol (LISP) (draft-ietf-lisp-06.txt)
- ❖ LISP Alternative Topology (LISP+ALT) (draft-ietf-lisp-alt-03.txt)
- ❖ LISP Internet Groper (LIG) (draft-ietf-lisp-lig-00)



Maastricht IETF 78

✚ Next IETF:

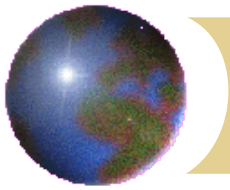
- ✚ Maastricht, Netherlands
July 25-30, 2010

✚ IETF BOF WIKI summarizes recent and upcoming BOF activities:

- ✚ <http://tools.ietf.org/bof/trac/wiki>
- ✚ Includes (early) topics that might (or might not) eventually result in official BOFs

✚ Officially approved BOFs (once known):

- ✚ Performance Metrics for Other Layers BOF



References

⊕ General WG info:

- ⊞ <http://tools.ietf.org/wg>
- ⊞ <http://tools.ietf.org/wg/foo> (for WG "foo")?
- ⊞ <http://datatracker.ietf.org/wg/> (**Easiest to use**)

⊕ Internet Drafts:

- ⊞ <http://tools.ietf.org/html>

⊕ IETF Daily Dose (**quick tool to get an update**):

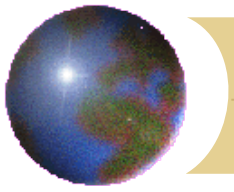
- ⊞ <http://tools.ietf.org/dailydose/>

⊕ Upcoming meeting agenda:

- ⊞ <http://tools.ietf.org/agenda>

⊕ Upcoming BOFs Wiki:

- ⊞ <http://tools.ietf.org/bof/trac/wiki>



Thank you

Questions?