

How to Participate in the IETF

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standards
global
innovation
Internet
infrastructure
volunteers
researchers
IETF
engineers
OPEN
participation
processes
collaborating
scientists

*No one is in charge,
anyone can contribute
and everyone can
benefit.*



IETF Organization: Areas

General Area (gen)

- ...activities focused on supporting, updating and maintaining the IETF standards development process.

Applications (app)

- ubiquitous application protocols (e.g., email, HTTP, FTP) and protocols used for Internet infrastructure

Internet (int)

- ...IP layer (both IPv4 and IPv6), DNS, mobility, VPNs and pseudowires..., and various link layer technologies.

Operations & Management (ops)

- Network Management, AAA, and various operational issues facing the Internet such as DNS operations, IPv6 operations, operational security and Routing operations.

Real-time Applications and Infrastructure (rai)

- ...develops protocols and architectures for delay-sensitive interpersonal communications...

Routing (rtg)

- ...responsible for ensuring continuous operation of the Internet routing system...

Security (sec)

- ...focused on security protocols...services: integrity, authentication, non-repudiation, confidentiality, and access control...key management is also vital.

Transport Services (tsv)

- ...works on mechanisms related to end-to-end data transport...



Operations & Management Area (ops)

The primary technical areas covered by the Operations & Management (OPS) Area include: Network Management, AAA, and various operational issues facing the Internet such as DNS operations, IPv6 operations, operational security and Routing operations.

- ADSL MIB (adslmib)
- Benchmarking Methodology (bmwg)
- Diameter Maintenance and Extensions (dime)
- Domain Name System Operations (dnsop)
- Energy Management (eman)
- Global Routing Operations (grow)
- IP Flow Information Export (ipfix)
- Large-Scale Measurement of Broadband Performance (lmap)
- MBONE Deployment (mboned)
- Network Configuration (netconf)
- NETCONF Data Modeling Language (netmod)
- Operations and Management Area Working Group (opsawg)
- Operational Security Capabilities for IP Network Infrastructure (opsec)
- RADIUS EXTensions (radext)
- IPv6 Operations (v6ops)
- Web PKI OPS (wpkops)

Operations & Management Area (ops)

Operational Focus

- ADSL MIB (adslmib)
- Benchmarking Methodology (bmwg)
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Domain Name System Operations (dnsop)

- ... develop guidelines for the operation of DNS software servers and the administration of DNS zone files...
- RFCs Published in the Last Year
 - [RFC 6781](#)
DNSSEC Operational Practices, Version 2
 - [RFC 6841](#)
A Framework for DNSSEC Policies and DNSSEC Practice Statements
- Current Work
 - AS112 Redirection using DNAME (draft-ietf-dnsop-as112-dname)
 - Automating DNSSEC delegation trust maintenance (draft-ietf-dnsop-delegation-trust-maintainance)
 - Initializing a DNS Resolver with Priming Queries (draft-ietf-dnsop-resolver-priming)
 - Add 100.64.0.0/10 prefixes to IPv4 Locally-Served DNS Zones Registry (draft-ietf-dnsop-rfc6598-rfc6303)

Global Routing Operations (grow)

- ...consider the operational problems associated with the IPv4 and IPv6 global routing systems, including but not limited to routing table growth, the effects of the actions between interior and exterior routing protocols, and the effect of address allocation policies and practices on the global routing system...
- RFCs Published in the Last Year
 - [RFC 6774](#)
Distribution of Diverse BGP Paths
- Current Work
 - Making BGP filtering a habit: Impact on policies (draft-ietf-grow-filtering-threats)
 - IRR & Routing Policy Configuration Considerations (draft-ietf-grow-irr-routing-policy-considerations)
 - Internet Exchange Route Server Operations (draft-ietf-grow-ix-bgp-route-server-operations)
 - Route-Leaks & MITM Attacks Against BGPSEC (draft-ietf-grow-simple-leak-attack-bgpsec-no-help)

Operations and Management Area WG (opsawg)

- Current Work

CAPWAP Extension for 802.11n and Power/channel Reconfiguration (draft-ietf-opsawg-capwap-extension)

IEEE 802.11 MAC Profile for CAPWAP (draft-ietf-opsawg-capwap-hybridmac)

Mechanisms for Optimal LAG/ECMP Component Link Utilization in Networks (draft-ietf-opsawg-large-flow-load-balancing)

CGN Deployment with BGP/MPLS IP VPNs (draft-ietf-opsawg-lsn-deployment)

An Overview of Operations, Administration, and Maintenance (OAM) Data Plane Tools (draft-ietf-opsawg-oam-overview)

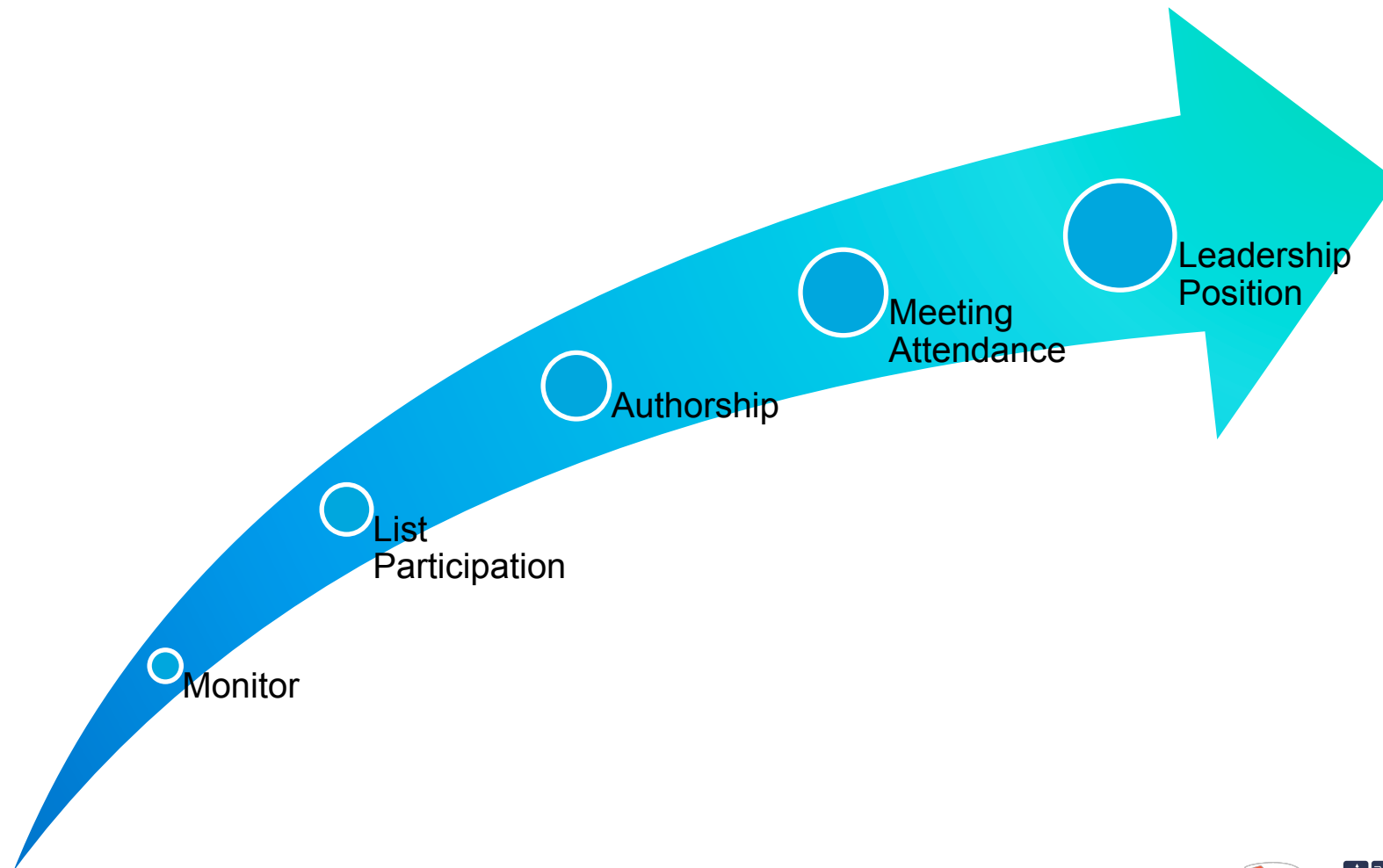
Ethernet in the First Mile Copper (EFMCu) Interfaces MIB (draft-ietf-opsawg-rfc5066bis)

Operational Security Capabilities for IP Network Infrastructure (opsec)

- ... document operational issues and best current practices with regard to network security...
- Current Work
 - BGP operations and security (draft-ietf-opsec-bgp-security)
 - DHCPv6-Shield: Protecting Against Rogue DHCPv6 Servers (draft-ietf-opsec-dhcpv6-shield)
 - Recommendations for filtering ICMP messages (draft-ietf-opsec-icmp-filtering)
 - Recommendations on filtering of IPv4 packets containing IPv4 options (draft-ietf-opsec-ip-options-filtering)
 - Network Reconnaissance in IPv6 Networks (draft-ietf-opsec-ipv6-host-scanning)
 - Security Implications of IPv6 on IPv4 Networks (draft-ietf-opsec-ipv6-implications-on-ipv4-nets)
 - Security Assessment of Neighbor Discovery (ND) for IPv6 (draft-ietf-opsec-ipv6-nd-security)
 - Using Only Link-Local Addressing Inside an IPv6 Network (draft-ietf-opsec-lla-only)
 - Operational Security Considerations for IPv6 Networks (draft-ietf-opsec-v6)
 - Virtual Private Network (VPN) traffic leakages in dual-stack hosts/ networks (draft-ietf-opsec-vpn-leakages)

How to Participate in the IETF?

- Join a mailing list..
- ..start contributing!!



IETF Meetings

Recent Meetings

- **88th IETF**
November 3-8, 2013
Vancouver, BC, Canada
- **87th IETF**
July 28 - August 2, 2013
Berlin, Germany
- **86th IETF**
March 10-15, 2013
Orlando, FL, USA

Upcoming Meetings

- **89th IETF**
March 2-7, 2014
London, England
- **90th IETF**
July 20-25, 2014
Toronto, ON, Canada
- **91st IETF**
November 9-14, 2014
Honolulu, HI, USA

IETF LAC Task Force

Pasos Siguietes



IETF LAC Task Force

- LACNOG creó el Grupo de Trabajo IETF LAC en Mayo del 2013 con el objetivo de fomentar la participación de personas de la región en las discusiones y procesos del IETF. Algunas de las metas son:
 - Ser un mecanismo para introducir nuevas personas en el IETF
 - Facilitar la discusión de ideas en el idioma local (Español, Portugués, Inglés)
 - Proveer un lugar en el cual los autores latinos puedan compartir sus drafts y recibir comentarios de sus colegas

<http://mail.lacnic.net/mailman/listinfo/ietf-lac>

Qué se ha hecho hasta ahora?

- ietf-lac@lacnog.org

- > 150 personas suscritas a la lista

- Discusiones sobre temas técnicos y no técnicos (lenguaje, apoyo económico, etc.)

- Reuniones Pre-IETF

- Organizadas antes de las reuniones más recientes del IETF: 87 (Berlín) y 88 (Vancouver).

- Reunión virtual para discutir temas de interés relacionados con la siguiente reunión.

- Presentaciones hechas por participantes latinos.

- Educación y Evangelización

- Presentaciones sobre el IETF y como participar en conferencias regionales: LACNIC/LACNOG, Semana da Infraestrutura, Cisco Live (México), etc..

Resultados

- Internet Drafts

Arturo Servín y Mariela Rocha; Monitoring Dual Stack/IPv6-only Networks and Services (draft-ietf-v6ops-monitor-ds-ipv6)

Antonio Moreiras, Edwin Cordeiro, Arturo Servín y Alejandro Acosta; IPv6 Address Prefixes Reserved for Documentation (draft-moreiras-v6ops-rfc3849bis)

Álvaro Retana y Ariel Weher; Use of the Cost Community to Propagate BGP Origin Validation State (draft-retana-sidr-origin-validation-cost-community – No Publicado)

- Posiciones de Liderazgo

Juan Carlos Zúñiga: Co-Chair Internet Area WG (intarea)

Inés Robles: Co-Chair Routing Over Low power and Lossy networks WG (roll)

Álvaro Retana: Co-Chair Source Packet Routing in Networking WG (spring)

IETF LAC Fase 2: Enfoque Local

- Reuniones Locales

 - **Primera sesión planeada para Mayo 2014 con GTER.**

 - Replicar formato Pre-IETF, con temas de interés local.

 - Planear en paralelo con reuniones de operadores u otros grupos interesados.

- Grupos de Trabajo Locales

 - Enfoque en problemas comunes de la comunidad.

- Programa de Mentores

 - Para dirigir discusiones y guiar hasta publicación el trabajo de Grupos de Trabajo locales.

 - Para guiar y colaborar con participantes nuevos en temas específicos.

- Becas para participar en IETF.

 - Necesario un grupo coordinador.

 - Abrir oportunidades específicas al IETF.

- Identificar organizaciones interesadas en colaborar.

 - Becas, patrocinio de grupos de trabajo, educación y evangelización.

Pasos Siguientes

- Suscríbese a la lista de ietf-lac.
<http://mail.lacnic.net/mailman/listinfo/ietf-lac>
- Suscríbese a listas del IETF.
- Participe en las discusiones.
- Aporte ideas, opiniones, soluciones!
- Participe en los esfuerzos locales.

Obrigado!

