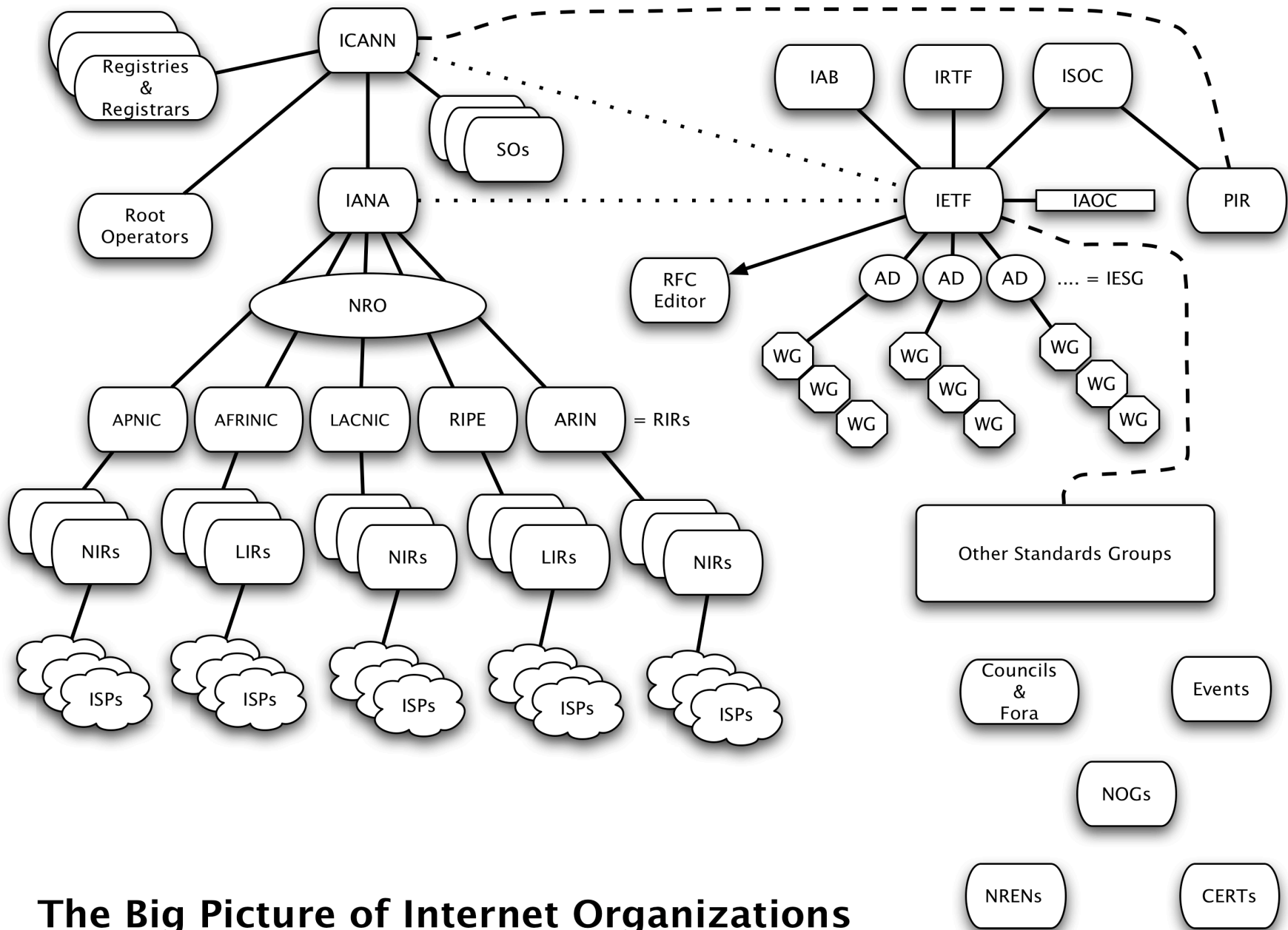# ISOC and IETF

Internet Standardization

Ole Jacobsen, Editor and Publisher
The Internet Protocol Journal
`http://cisco.com/ipj`

The Big Picture of Internet Organizations

www.isoc.org

- Founded in 1992 by Internet Pioneers: International non-profit organization

- 90+ organizational members

- 28,000+ individual members

- 90+ chapters worldwide

- Regional Bureaus: Africa, Latin America & Caribbean, South & South East Asia

- Operates the Public Interest Registry (PIR)

- ISOC is an international cause-related organization that works for the open development and evolution of the Internet for all people. Does so through work across the areas of technical standards, education and capacity-building as well as public policy.

What Makes ISOC Unique?

- Focus is the Internet: **Education, Standards, Policy**

- Organizational home of the Internet Engineering Task Force (IETF), Internet Architecture Board (IAB), and related bodies

- Enable capacity and technical community building throughout the world

- Key player in Internet Policy
  Particularly in the Internet Governance Forum (IGF)

ISOC's Principles

- ISOC's principles and activities are based upon a fundamental belief that:
  ## **"The Internet is for Everyone**"

- Envisions a future in which people everywhere can use the Internet to improve quality of life
  - Possible when standards, technologies, business practices, and government policies sustain an open and universally accessible platform for innovation, creativity, and economic opportunity

- Core beliefs
  - `http://www.isoc.org/pubpolpillar/principles.shtml`

ISOC and Standards

- Partial funding of IETF process

- Funding of RFC Editor

- Organizational home for IETF and IAB:
  - Legal umbrella
  - Insurance
  - IAOC home
  - Appoints chair of IETF nominations committee
  - Part of the process appeal chain

# Internet Architecture Board (IAB)

- Provides overall Architectural Advice & Oversight to IESG, IETF & ISOC

- Approves IESG slate from nomcom

- Step in appeals chain

- Provides "oversight" of IETF standards process

- Deals with IETF external liaisons

- Appoints IRTF chair

- Selects IETF–IANA liaison

- Appoints & Oversees RFC Editor

- Chartered by ISOC

More about the IAB

- Reviews BOF requests

- Provides input to IESG on WG formation & charters

- Sponsors & organize Internet Research Task Force (IRTF)

- Convenes topic-specific workshops (mostly invitation only)

- Organizes ad-hoc expert groups to adjudicate technical disputes

- Write IDs/RFCs stating IAB opinion
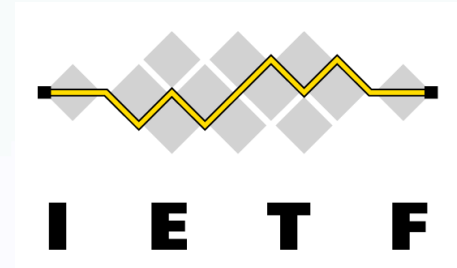
- Participates in IETF WG discussions

Internet Engineering Task Force (1)
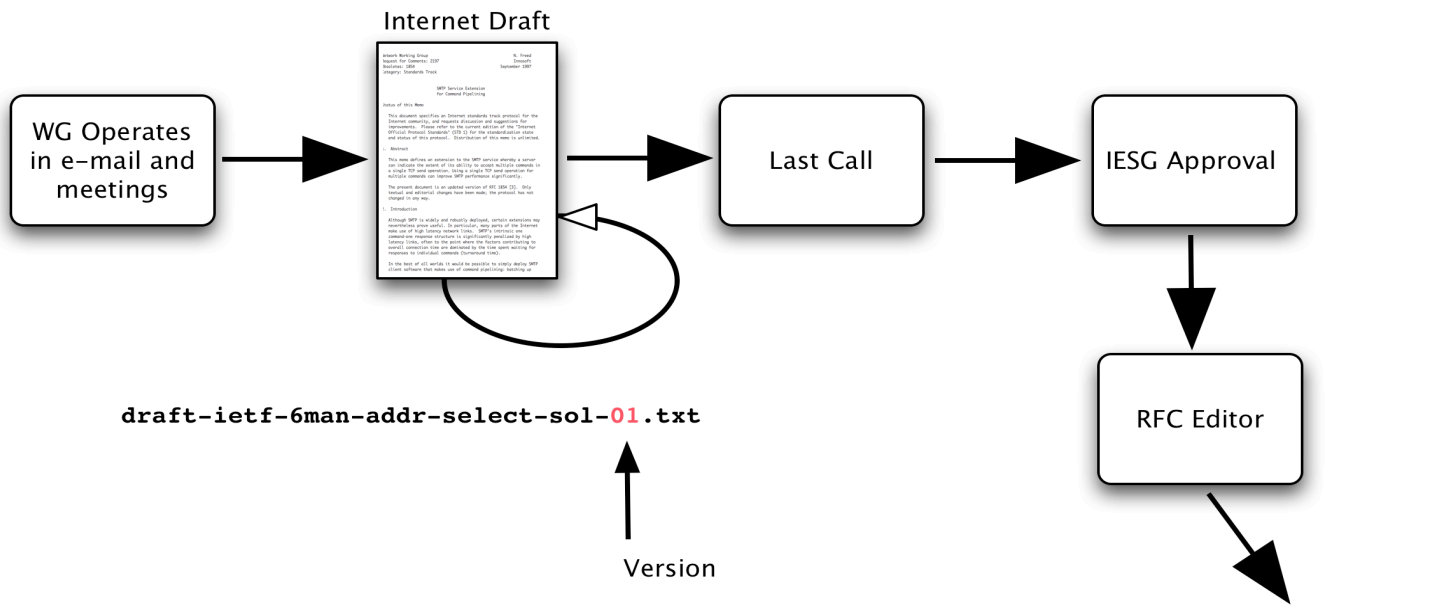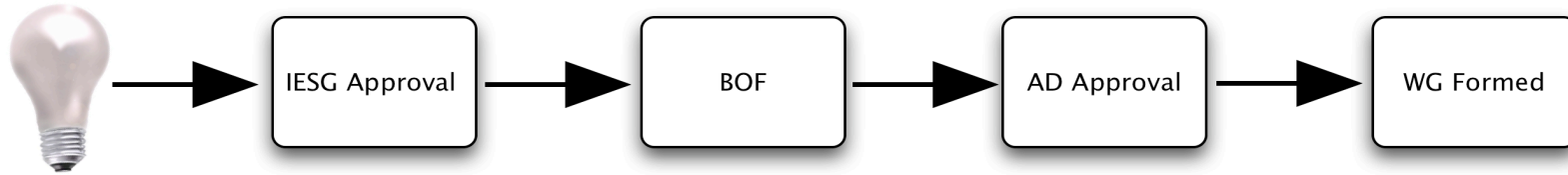
IETF

www.ietf.org
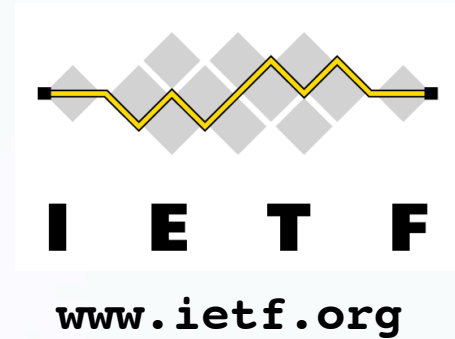
- Open for participation from anyone including YOU

- No membership fees, just meeting fees

- Much of its work takes place on mailing lists

- Face-to-face meetings 3 times per year

- Meets in North America, Europe, Asia

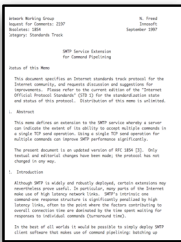- IETF 76 will be held in Hiroshima, November 2009

IETF (2)

- Produces technical documents, *some* of which may become standards, published as RFCs

- Scope: "Above the wire and below the application"

- Organized into several *Areas* (each with several *Working Groups*):

  - **General**

  - **Applications**

  - **Internet**

  - **Operations and Management**

  - **Real-time Applications and Infrastructure**

  - **Routing**

  - **Security**

  - **Transport**

From Idea to RFC

IESG Approval → BOF → AD Approval → WG Formed

WG Operates in e-mail and meetings →

Internet Draft

draft-ietf-6man-addr-select-sol-01.txt

Version

Last Call → IESG Approval → RFC Editor →
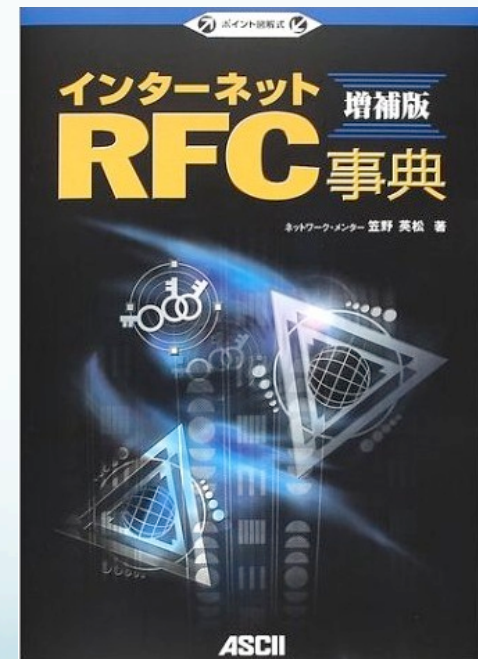
Final RFC

NOTE: Independent submission stream not shown

What is an RFC?

- RFC used to stand for "Request for Comments"
  - now just a (brand) name
  - now tend to be more formal documents than early RFCs

- IETF document publication series

- RFC 1: "Host Software" – April, 1969

- Now over 5,000 RFCs

- **Not all RFCs are standards!**
  - see RFC 1796
  - though some vendors imply otherwise

- Many types of RFCs

Types of RFCs

- Standards track: OSPF, IPv6, IPsec …

- Obsolete Standards: RIPv1

- Requirements: Host Requirements

- Policies: Classless InterDomain Routing

- April Fool's Day jokes

- White Papers

- Process Documents (See RFC 3777, RFC 2026)

- Experimental History

RFC Editor

- IETF Publication Arm

- **rfc-editor@rfc-editor.org**

- Semi-independent

- Gets requests to publish IETF IDs from IESG

- Also gets requests to publish *independent* IDs for informational or experimental RFCs

- Asks IESG for advice on publishing independent RFCs but can exercise own discretion

- Presumption is to publish technically competent IDs

You can get involved!

- Join IETF mailing list(s)

- Visit **http://ietf.org**

- Attend Meetings, especially Hiroshima 2009!

- Attend Newcomers Orientation

- Talk to colleagues

- Read IETF Journal (and Internet Protocol Journal)

- Work in local setting (Japan)

Thanks to:

- Scott Bradner: IETF Newcomers Presentation

- Gerard Ross: ISOC Overview

- The audience: ありがとうございました

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