The Internet Engineering Task Force: Making the Internet Work Better

Russ Housley
IETF Chair
Global IETF Community
IETF Working Groups

http://datatracker.ietf.org/wg/

133 Working Groups in:
- Applications
- Transport
- Internet
- Operations and Management
- Real-time Applications and Infrastructure
- Routing
- Security
Examples of IETF protocols

- Domain Name System (DNS)
- Email (IMAP, POP, and SMTP)
- World Wide Web transport (HTTP)
- Internet Protocol (IPv4 and IPv6)
- Instant Messaging (XMPP)
- Transmission Control Protocol (TCP)
- Open Shortest Path First (OSPF)
- Border Gateway Protocol (BGP)
- Session Initiation Protocol (SIP)
- Multiprotocol Label Switching (MPLS)
Mission of the IETF

Make the Internet work better by producing high quality, relevant technical documents that influence the way people design, use, and manage the Internet.
Ethos of the IETF

- Open standards process
  - Everyone is invited to participate at all levels
  - Our primary venue is email
  - All working and published documents are freely available online

- One Internet
  - Open standards for a global Internet
  - Maximum interoperability and scalability
  - Avoid specialized protocols in different places

- Contributions are judged on technical merits: rough consensus and running code
OpenStand Principles

- Due process
- Broad consensus
- Transparency
- Balance
- Openness
Case Study: Internationalized Domain Names for Applications

- IDNA first proposed in the IETF (1996)
- Standard updated to improve real-world performance (2008)
- Deployed in global Domain Name System (2010)
http://هيئة-تنظيم-الاتصالات.امارات//
Multiple standards in a single device

- ITU-T: Codecs
- ITU-R: Spectrum
- IEEE: 802.11
- GSMA: 3G
- IETF: TCP/IP
- W3C: HTML
- ...

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Thank You
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