



**I E T F**®

IETF79  
- impressions and summary

Lars Strand

# What is this all about?

- **Standards**
- An implemented network standard = **network protocol**
- Protocols = the languages that make the Internet work
- More precise: ***Open standards*** make the Internet work!
- So, who creates these standards then?
- Anyone who are interested and have the time...
- Very industry focused



### Internet Society (ISOC)

- \* founded 1992
- \* administrative
- \* legal
- \* financial
- = give "corporate structure"



### Internet Architecture Board

- \* current form since 1992
- \* advisory body of ISOC
- \* oversees IETF and IRTF
- \* responsibility:
  - architectural oversight
  - oversight of process to create Internet Standards

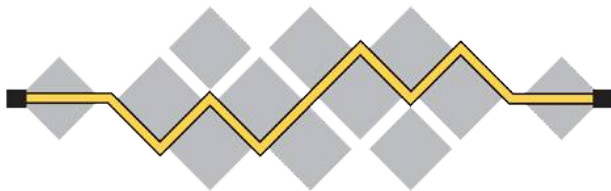
### Internet Engineering Steering Group

- \* Technical adm for IETF
- \* day-to-day mgmt of IETF
- \* final technical review of Internet Std.



### Internet Engineering Task Force

- \* creates and promotes standards
- \* "rough consensus and running code"



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### Internet Research Task Force

- \* "promote research of future Internet"
- \* study long term issues



I R T F



# IETF79 – Beijing

- ~1337 participant
- People from major network players presents: Cisco, Ericsson, Huawei, ZTE, Juniper
- Some concern/discussion before the meeting regarding censorship (Great Firewall of China)
- Result: 2x1Gbps dedicated network - unfiltered



# Areas

- Application
  - HTTP, FTP, SMTP, ..
- Internet
  - IPv6, DNS, ..
- Ops & Mgmt
  - Benchmark, config, monitoring, ...
- Real-time Application and Infrastructure
  - SIP, RTP, ..
- Routing
  - MANET, MPLS, OSPF, ..
- Security
  - Kerberos, Kitten, ..
- Transport
  - TCP, SCTP, NFSv4, ...

# Working Group (WG)

- Created to address a specific problem
- Primary mechanism within in IETF to develop standards
- Expected to be short-lived → soon as reached its goals → conclude and move on
- Most work is done on mailinglists
- Real-life meeting (like IETF79) = summary and wrap-up
  - In-depth discussion of some key topics
- VERY informal meeting structure
  - rough consensus
  - can get rough
  - can reach decisions by humming

# WG

- SIP
  - Location Conveyance with SIP – request location of a UAC.
  - Request history – how did the call reach me?
  - SIP-based Media Recording – copy recording of call
- kitten
  - GSS-API with EAP

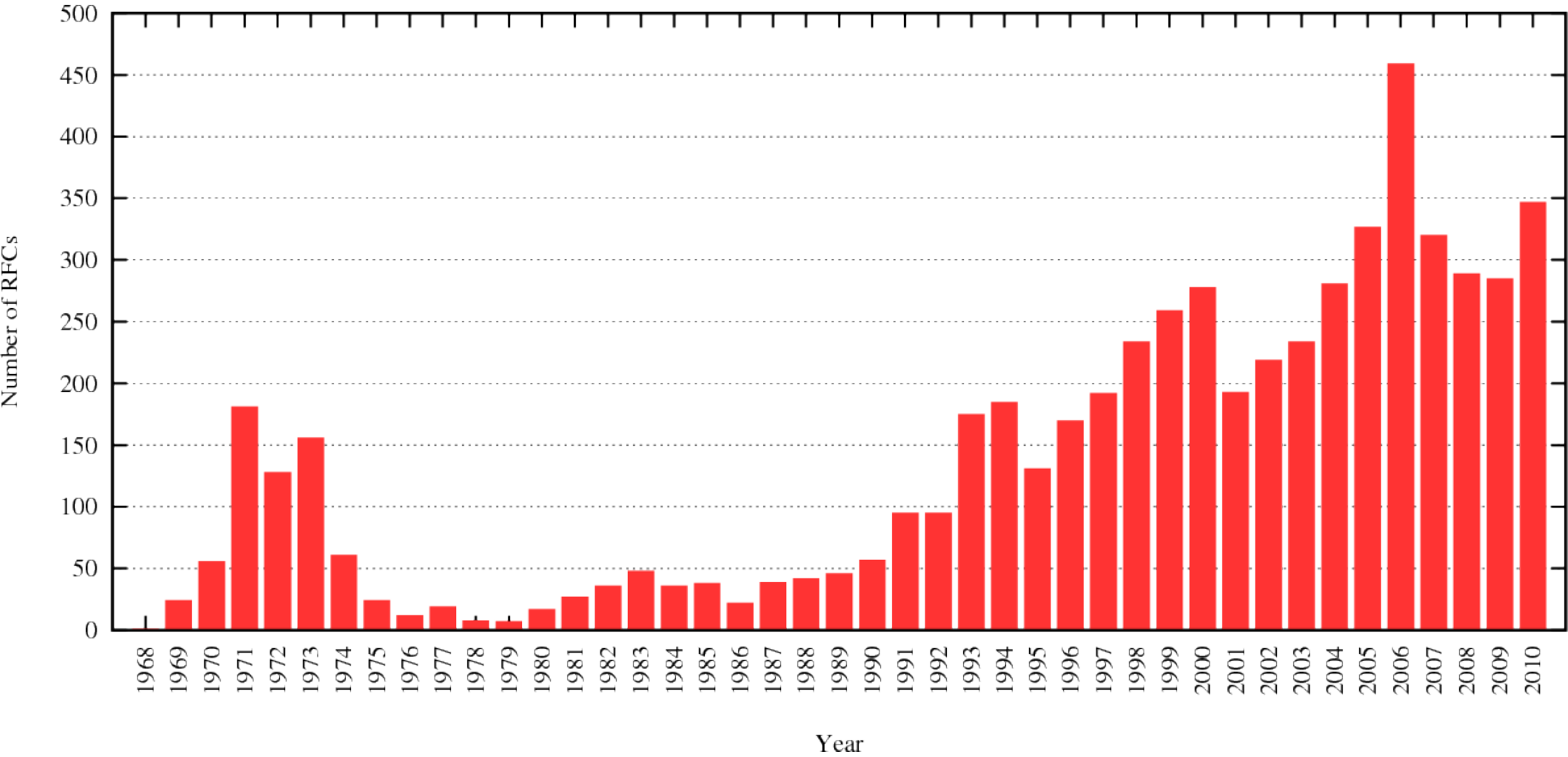
# RFCs

- Anyone can write and publish a DRAFT
  - Online for 6 months – open for review, comments
  - The RFC Editor take a decision based on RFC4846
- Different maturity levels (RFC2026)
  - Internet Standards track: Proposed, Draft, Standard
  - Non-standards track: Experimental, Informational, Historic
  - “Community standards”: Best Current Practice
- SIP is a Proposed Standard.
- RTP is a Internet Standard
- Once published, an RFC never changes
  - But you can submit an errata



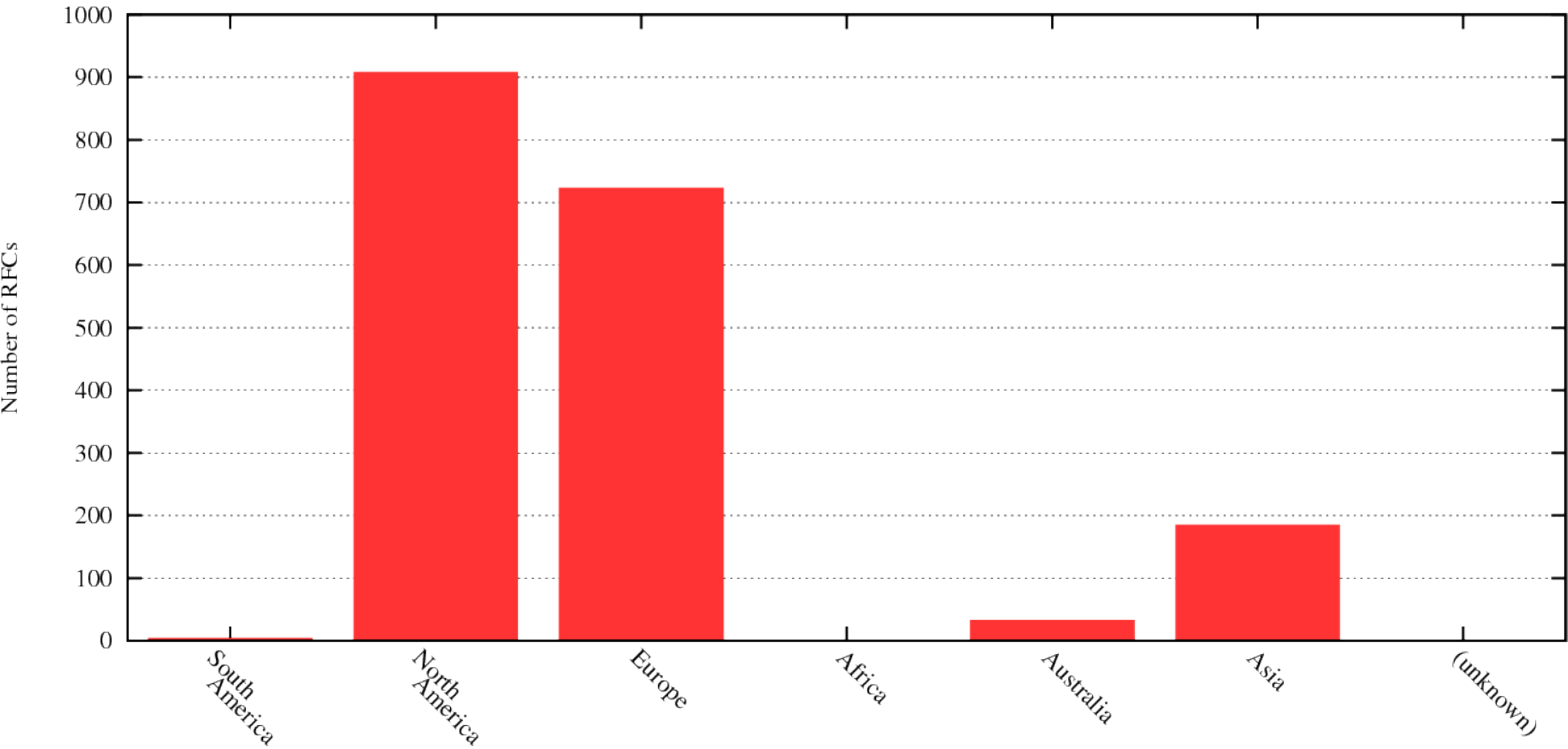
# RFC publication rate

Publication rate per year



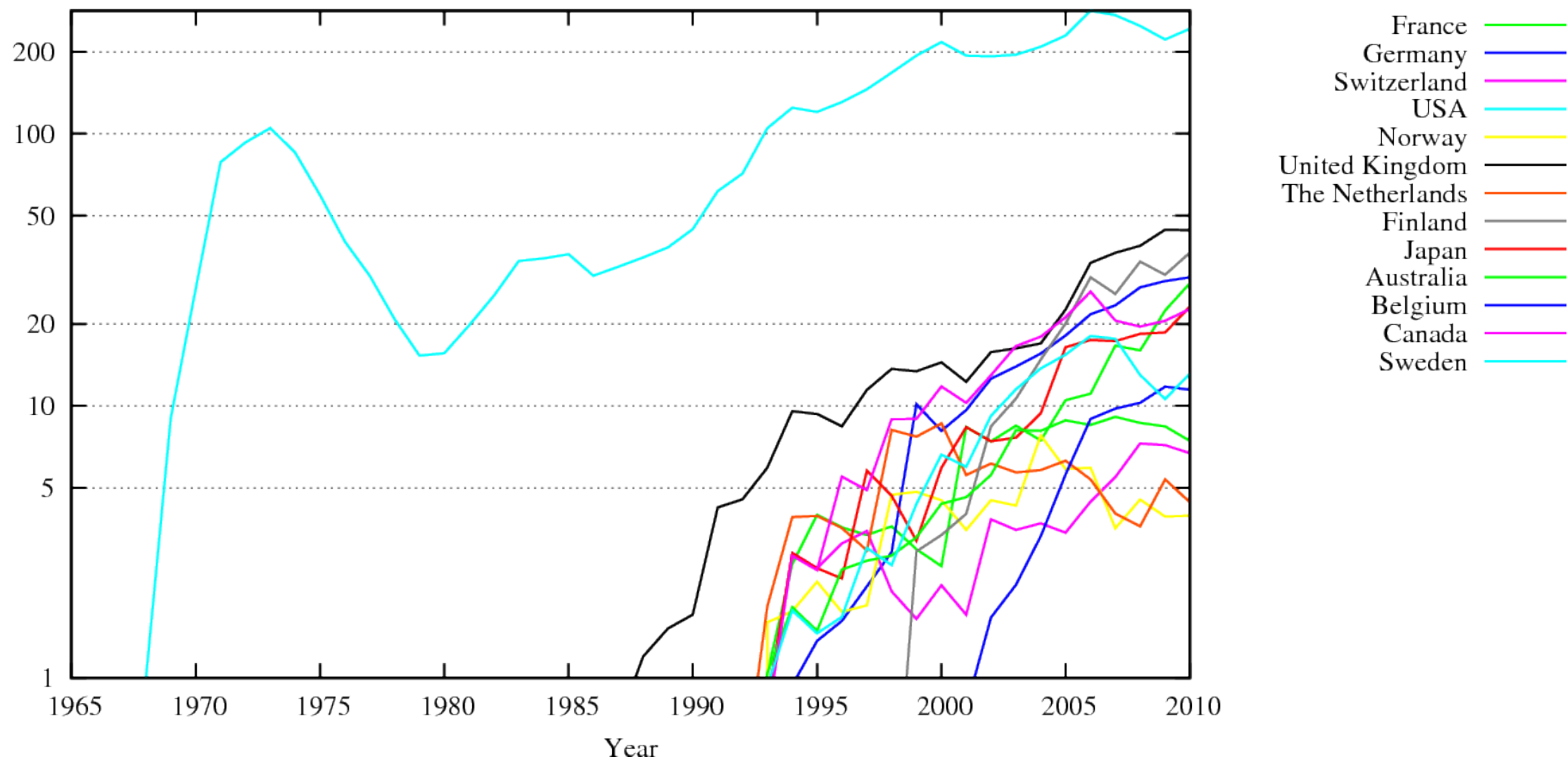
# Numbers RFC per continent

Number of RFCs per Continent



# Who is most active?

Comparison of Countries over the Years



# Numbers of authors per company

Number of Authors per Company

