



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

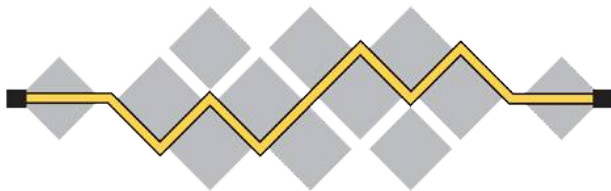
Internet Engineering Steering Group

- * 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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I R T F

Internet Research Task Force

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



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

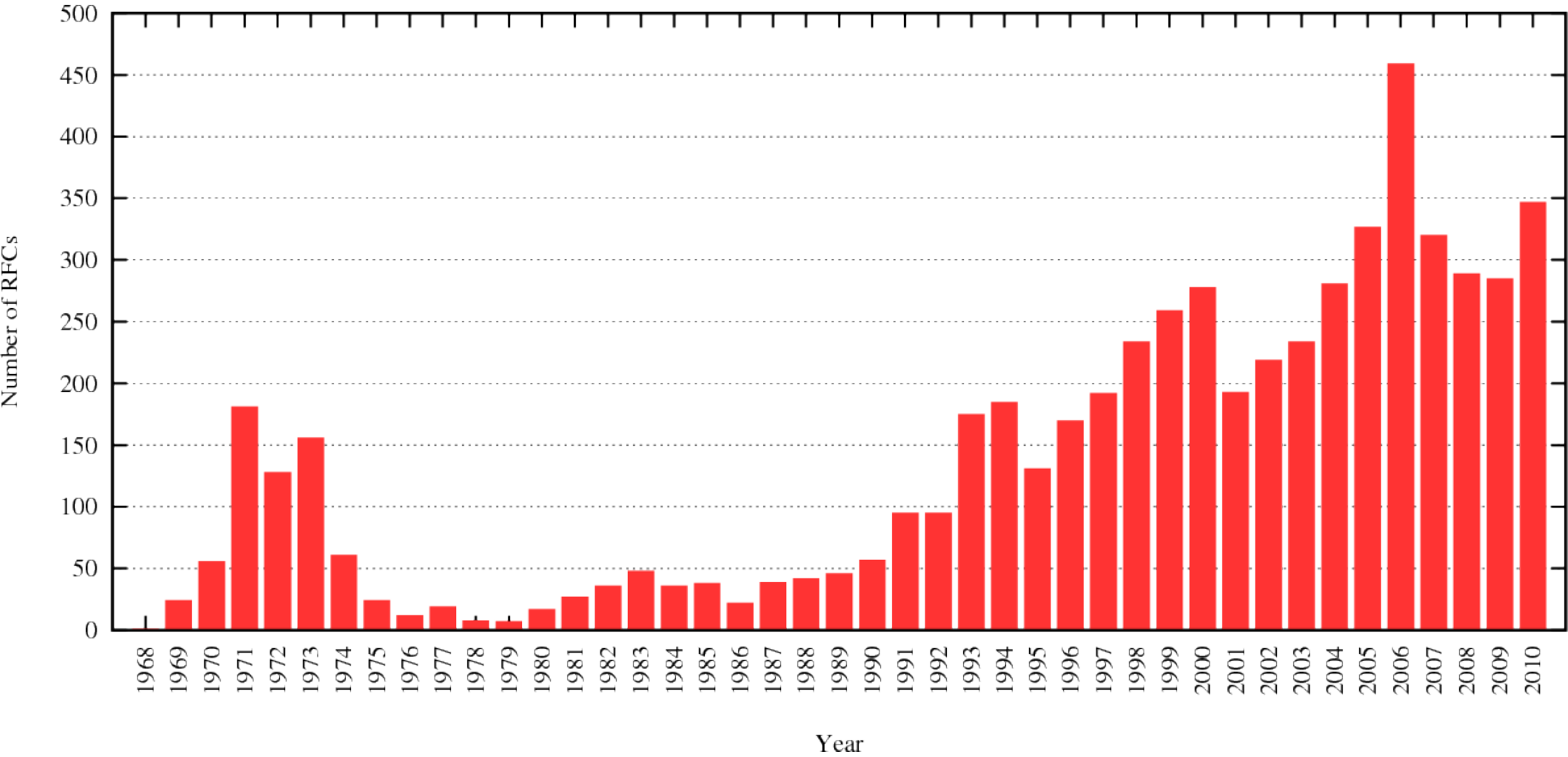
- SIP
 - Location Conveyance with SIP – request location of a UAC.
 - Request history – how did the call reach me?
 - SIP-based Media Recording – copy recording of call
- kitten
 - GSS-API with EAP

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

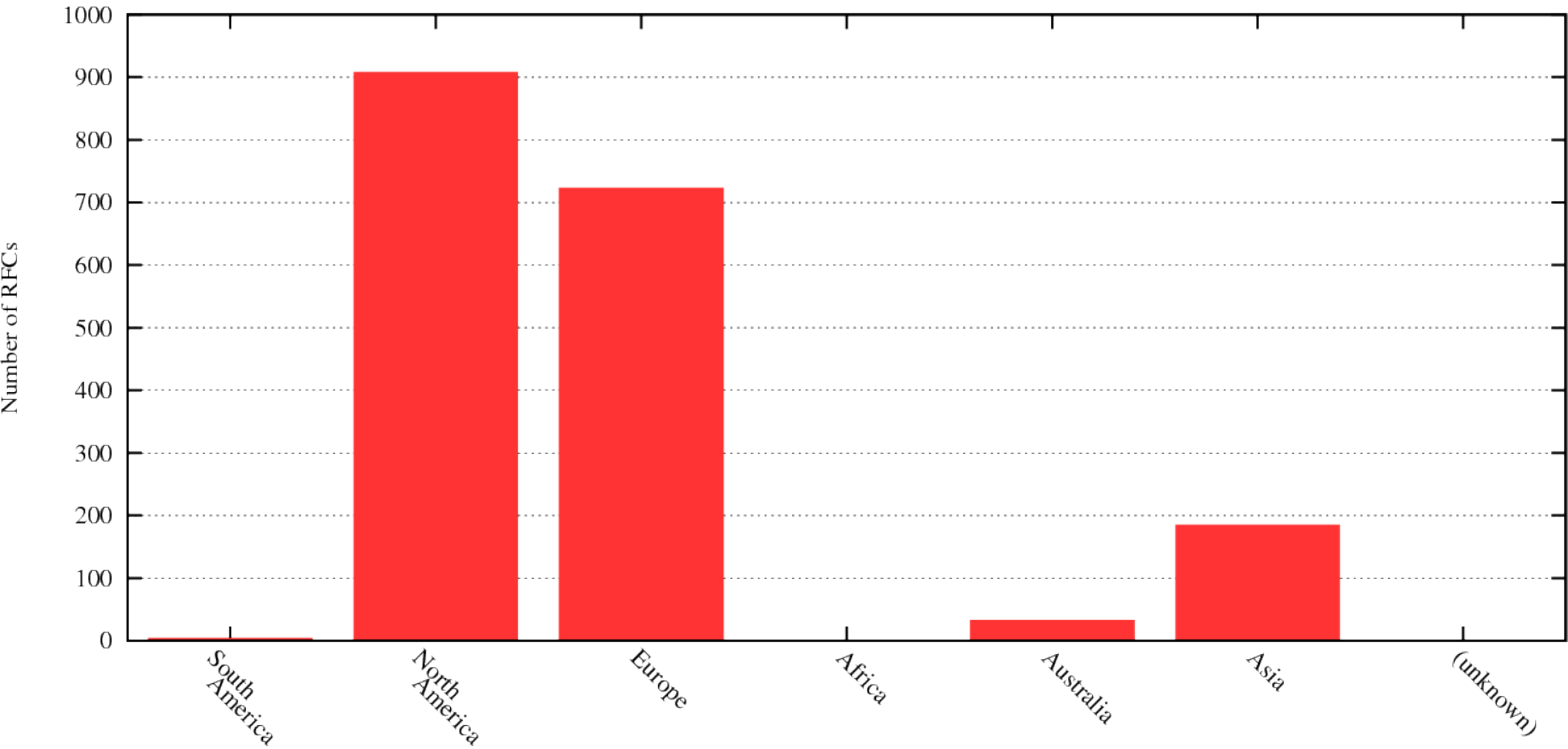
RFC publication rate

Publication rate per year



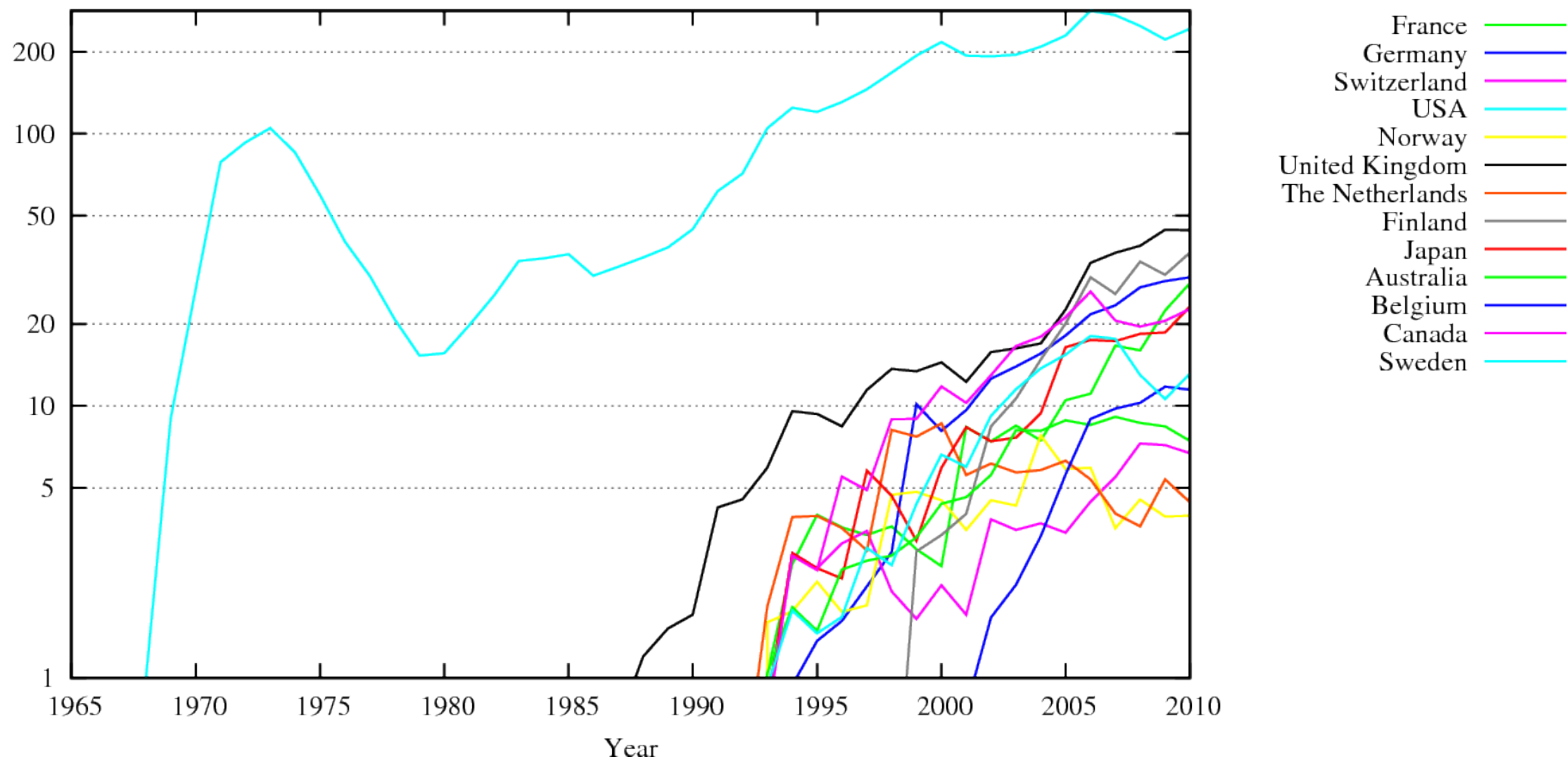
Numbers RFC per continent

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

