



Opening Session

VIII Workshop Pré-IETF/IRTF

Michel Bonfim (UFC)

Simone Ferlin (Ericsson AB, Suécia)

Missão do IETF

A Missão do IETF é fazer a Internet funcionar melhor...



O que é o IETF?



- ***Standards Development Organization (SDO)***
- Foco em **Padrões Abertos**:
 - Disponíveis para livre acesso e implementação, que independem de royalties e outras taxas e sem discriminação de uso.
- Grupo internacional aberto, composto de técnicos, agências, fabricantes, fornecedores e pesquisadores (auto-seleção).
- Focado em tecnologias de Internet
- Impulsionado pela adoção do mercado (um padrão real é aquele que as pessoas usam)



Internet Draft

Revision Process



**Request For Comments
(RFC)**

Network Working Group
Request for Comments: 4566
Obsoletes: 2327, 3266
Category: Standards Track

M. Handley
DCL
V. Jacobson
Packet Design
C. Perkins
University of Glasgow
July 2006

SDP: Session Description Protocol

Status of This Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

Copyright Notice

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Abstract

This memo defines the Session Description Protocol (SDP). SDP is intended for describing multimedia sessions for the purposes of session announcement, session invitation, and other forms of multimedia session initiation.

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Consenso Aproximado



Mantra do IETF: “We reject kings, presidents and voting. We believe in rough consensus and running code (David Clark, 1992)”

- Sem votação formal
- Nenhum papel formal do governo
- E ... sem estandes, promoções de vendas ou outras atividades relacionadas a vendas

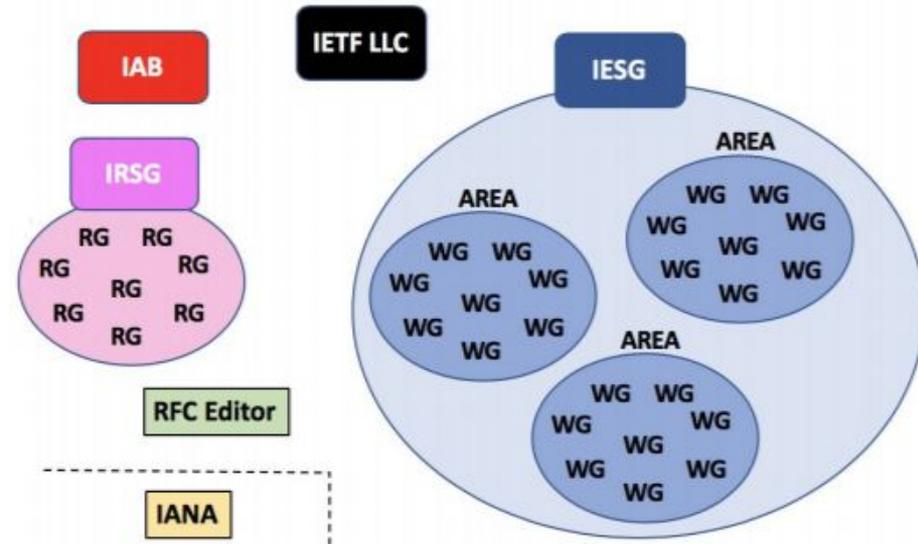
E o IRTF?

A **Internet Research Task Force (IRTF)** promove a evolução da Internet por meio de pesquisas aplicadas e de longo prazo na Internet: protocolos, aplicativos, arquitetura e tecnologia

IETF - The Big Picture



- **Internet Engineering Steering Group (IESG)** responsável pela gestão técnica das atividades da IETF e do processo de padronização da Internet;
- **Internet Research Steering Group (IRSG)** um grupo de membros de vários RGs com foco em tópicos de pesquisa de longo prazo na Internet
- **Internet Architecture Board (IAB)** fornece supervisão da arquitetura da Internet e do processo de padrões
- **IETF Administration LLC** sede corporativa para o IETF, o IAB e o IRTF; fornece suporte fiscal e administrativo



Áreas do IETF

Applications and Real-Time
(ART)

- Application protocols and architectures
- Real-time (communication) and non-real-time

Transport (TSV)

- Mechanisms related to data transport on the Internet
- Includes congestion control

Routing (RTG)

- Routing and signaling protocols

Internet (INT)

- IPv4/IPv6, DNS, DHCP, mobility

Operations and
Management (OPS)

- Network management
- Operations: IPv6, DNS, security, routing

Security (SEC)

- Security protocols and mechanisms

General (GEN)

- Activities focused on supporting and updating IETF processes

Active IETF working groups

[Concluded WGs](#)
[Status Reports](#)
[Chair Photos](#)

Applications and Real-Time Area (art)

art Area Directors (ADs)

[✉ Murray Kucherawy](#)
[✉ Francesca Palombini](#)

art area-specific web pages

[Issuer Tracker](#)
[Wiki](#)

art active WGs (30)

Group	Responsible AD	Name	Chairs
asap	✉ Murray	Automatic SIP trunking And Peering	Jean Mahoney ✉ , Gonzalo Salgueiro ✉
asdf	✉ Francesca	A Semantic Definition Format for Data and Interactions of Things	Michael Richardson ✉ , Niklas Widell ✉
avtcore	✉ Murray	Audio/Video Transport Core Maintenance	Bernard Aboba ✉ , Jonathan Lennox ✉
calext	✉ Francesca	Calendaring Extensions	Bron Gondwana ✉ , Daniel Migault ✉
cbor	✉ Francesca	Concise Binary Object Representation Maintenance and Extensions	Christian Amsüss ✉ , Barry Leiba ✉
cdni	✉ Francesca	Content Delivery Networks Interconnection	Kevin Ma ✉ , Sanjay Mishra ✉
cellar	✉ Murray	Codec Encoding for LossLess Archiving and Realtime transmission	Spencer Dawkins ✉ , Michael Richardson ✉
core	✉ Francesca	Constrained RESTful Environments	Carsten Bormann ✉ , Jaime Jimenez ✉ , Marco Tiloca ✉
dispatch	✉ Francesca	Dispatch	Patrick McManus ✉ , Kirsty Paine ✉
dmarc	✉ Murray	Domain-based Message Authentication, Reporting & Conformance	Seth Blank ✉ , Barry Leiba ✉
ecrit	✉ Murray	Emergency Context Resolution with Internet Technologies	Allison Mankin ✉ , Roger Marshall ✉
emailcore	✉ Murray	Revision of core Email specifications	Todd Herr ✉ , Alexey Melnikov ✉

Active IRTF research groups

IRTF chair

[✉ Colin Perkins](#)

Active research groups

Status Reports

Chair Photos

Group	Name	Chairs
cfrg	Crypto Forum	Alexey Melnikov ✉ , Stanislav Smyshlyaev ✉ , Nick Sullivan ✉
coinrg	Computing in the Network Research Group	Jianfei(Jeffrey) HE ✉ , Marie-Jose Montpetit ✉ , Eve Schooler ✉
dinrg	Decentralized Internet Infrastructure	Dirk Kutscher ✉ , Lixia Zhang ✉
gaia	Global Access to the Internet for All	Jane Coffin ✉ , Leandro Navarro ✉
hrpc	Human Rights Protocol Considerations	Mallory Knodel ✉
iccrgr	Internet Congestion Control	Jana Iyengar ✉
icnrg	Information-Centric Networking	Dirk Kutscher ✉ , David Oran ✉
maprg	Measurement and Analysis for Protocols	Mirja Köhlewind ✉ , Dave Plonka ✉
nmrg	Network Management	Laurent Ciavaglia ✉ , Jérôme François ✉
nwcrg	Coding for efficient NetWork Communications Research Group	Marie-Jose Montpetit ✉ , Vincent Roca ✉
panrg	Path Aware Networking RG	Jen Linkova ✉ , Brian Trammell ✉
pearg	Privacy Enhancements and Assessments Research Group	Sara Dickinson ✉ , Shivan Sahib ✉ , Christopher Wood ✉
qirg	Quantum Internet Research Group	Wojciech Kozłowski ✉ , Rodney Van Meter ✉
t2trg	Thing-to-Thing	Carsten Bormann ✉ , Ari Keränen ✉

Como contribuir para a comunidade do IETF?

- Listas de e-mail;
- IETF Meetings (3x ao ano);
- Como se comunicar?
 - Em Inglês!

Você pode definir como a Internet vai funcionar!

About nrmg

This is the NMRG mailing list. It serves as a discussion place for the Network Management Research Group (NMRG) of the Internet Research Task Force (IRTF).

To see the collection of prior postings to the list, visit the [nrmg Archives](#) or [nrmg MHonArc Archives](#).

Using nrmg

To post a message to all the list members, send email to nrmg@irtf.org.

You can subscribe to the list, or change your existing subscription, in the sections below.

Subscribing to nrmg

Subscribe to nrmg by filling out the following form. You will be sent email requesting confirmation, to prevent others from gratuitously subscribing you. This is a private list and membership is not available to non-members.

Your email address:

Your name (optional):

You may enter a privacy password below. This provides only mild security, but should prevent others from messing with your subscription. **Do not use a valuable password** as it will occasionally be emailed back to you in cleartext.

Upcoming Meetings

IETF Meetings are held three times per year around the world to promote in-person attendance by IETF participants. Interim meetings are organized between IETF meetings to focus on specific issues

In addition to the IETF meeting information available below, a [full schedule](#) of [interim meetings](#) is available via the IETF Datatracker. You may wish to subscribe to the upcoming meeting calendar:

[IETF Upcoming Meetings Calendar \(.ics\)](#)

IETF 111

July 26-30, 2021. Online. Hosted by Juniper Networks

IETF 112

November 6-12, 2021. Madrid, Spain - Melia Castilla Hotel. Hosted by Ericsson

IETF 113

March 19-25, 2022. Bangkok, Thailand - Marriott Marquis Queen's Park

IETF 114

July 23-29, 2022. Philadelphia, USA - Philadelphia 201 Hotel. Hosted by Comcast and NBCUniversal

IETF 115

November 5-11, 2022

IETF 116

March 25-31, 2023

MEETINGS AND EVENTS

[IETF 111 Online](#)

[IETF 112 Madrid](#)

[IETF 113 Bangkok](#)

[Upcoming Meetings](#)

[Past Meetings](#)

[Interim Meetings](#)

[Register for the Next IETF Meeting](#)

[Proceedings](#)

[Meeting Planning](#)

[Meeting Technology](#)

[Jabber/XMPP Groupchat](#)

[Side Meetings and other](#)

[Private Meetings](#)



Type	Rate (USD)	Notes	
Week Pass	\$230.00 \$280.00 \$330.00	Early Bird: if paid in full prior to 23:59 UTC Monday, June 07, 2021 Standard Rate: if paid in full after 23:59 UTC Monday, June 07, 2021 and prior to 23:59 UTC Monday, July 12, 2021 Full Rate: if paid after 23:59 UTC Monday, July 12, 2021	Register
One Day Pass	\$125.00	Includes access to any one meeting day of meeting sessions, as well as plenaries and tutorials	Register
Full Time Student	\$50.00	Full Time Student registration is only available for students currently enrolled in an academic institution. The registrar may ask registrants to provide suitable proof of eligibility (such as a current student identification card) after registration. If the registrant is unable to provide proof of their student status, the registration will be canceled and the registration fee will be refunded, subject to a 10% service fee.	Register
Hackathon	\$0	No charge for hackathon registration *If you wish to participate in both the Hackathon and the IETF meeting, please register for each separately	Register

Fee Waiver Option

We understand that not everyone can afford the [IETF 111](#) registration fee for a variety of reasons, including issues with income, employment status and employer support, and we do not want any of these to be a barrier to participation. If you cannot afford the registration fee then please take this fee waiver option to ensure that you can participate. We make an unlimited number of fee waivers available and we do not ask you to explain why you are taking the fee waiver option or make any check on eligibility as we operate on a trust basis.

The information you provide will be confidential and will only be used for the purpose of allocating fee waivers.

Name (required):

Organization (required, "None" is acceptable):

Email (required):

Datatracker Email (if different from above):

FORMS

[Fee Waiver Option](#)



🏠 > About > Participate in the IETF

The Tao of IETF

A Novice's Guide to the Internet Engineering Task Force

The Tao of IETF

<https://www.ietf.org/about/participate/tao/>

Niels ten Oever and Kathleen Moriarty, Editors

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About This Document

The current version of this web page can always be found at [<https://www.ietf.org/tao.html>]. To contribute to this document or to discuss its content, please join the "tao-discuss" mailing list [<https://www.ietf.org/mailman/listinfo/tao-discuss>]. A history of the major versions of the Tao can be found here. This particular version was created on 2018-11-08.

This web page is in English. There is a list of [translations of the Tao of the IETF](#).

Abstract

This document introduces you to the 'ways of the IETF': it will convey the might and magic of networking people and packets in the Internet's most prominent standards bodies. Underneath we describe the inner workings of IETF meetings and Working Groups, discuss organizations related to



🏠 > About > Participate in the IETF

The Tao of IETF

A Novice's Guide to the Internet Engineering Task Force

IETF Datatracker

<https://datatracker.ietf.org/>

Niels ten Oever and Kathleen Moriarty, Editors

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About This Document

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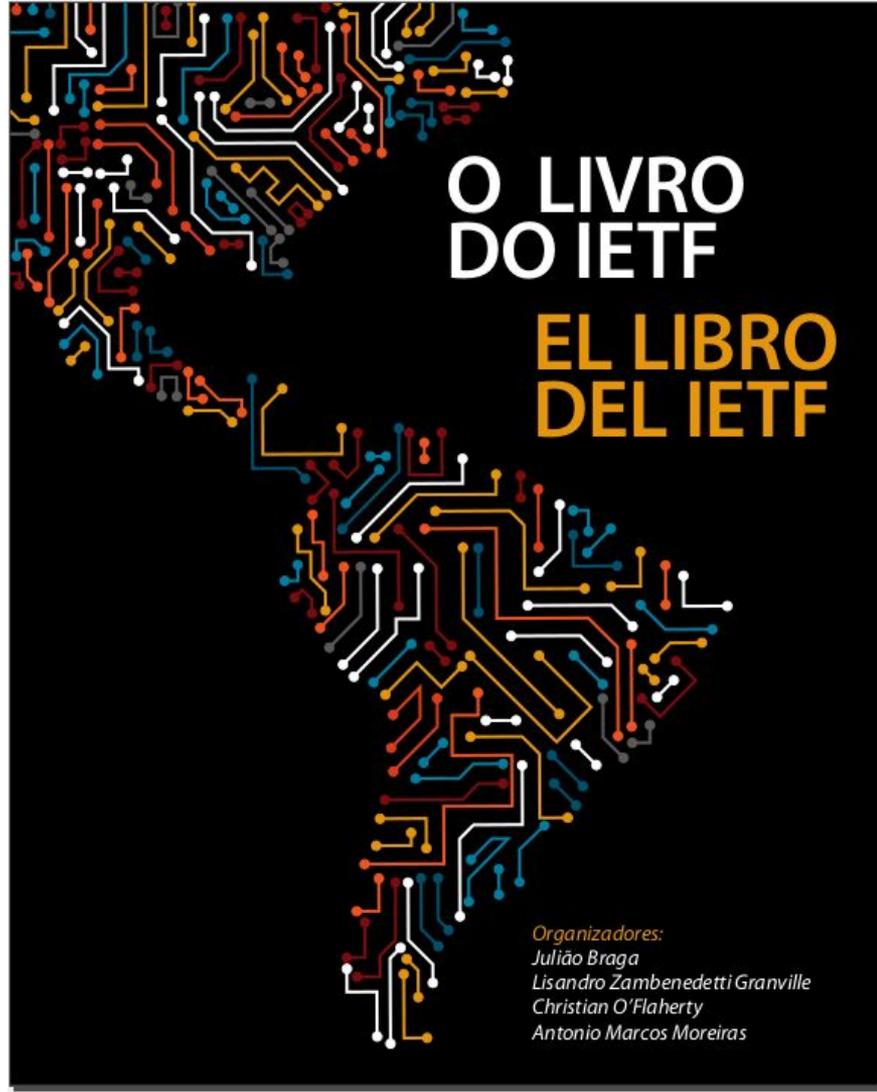
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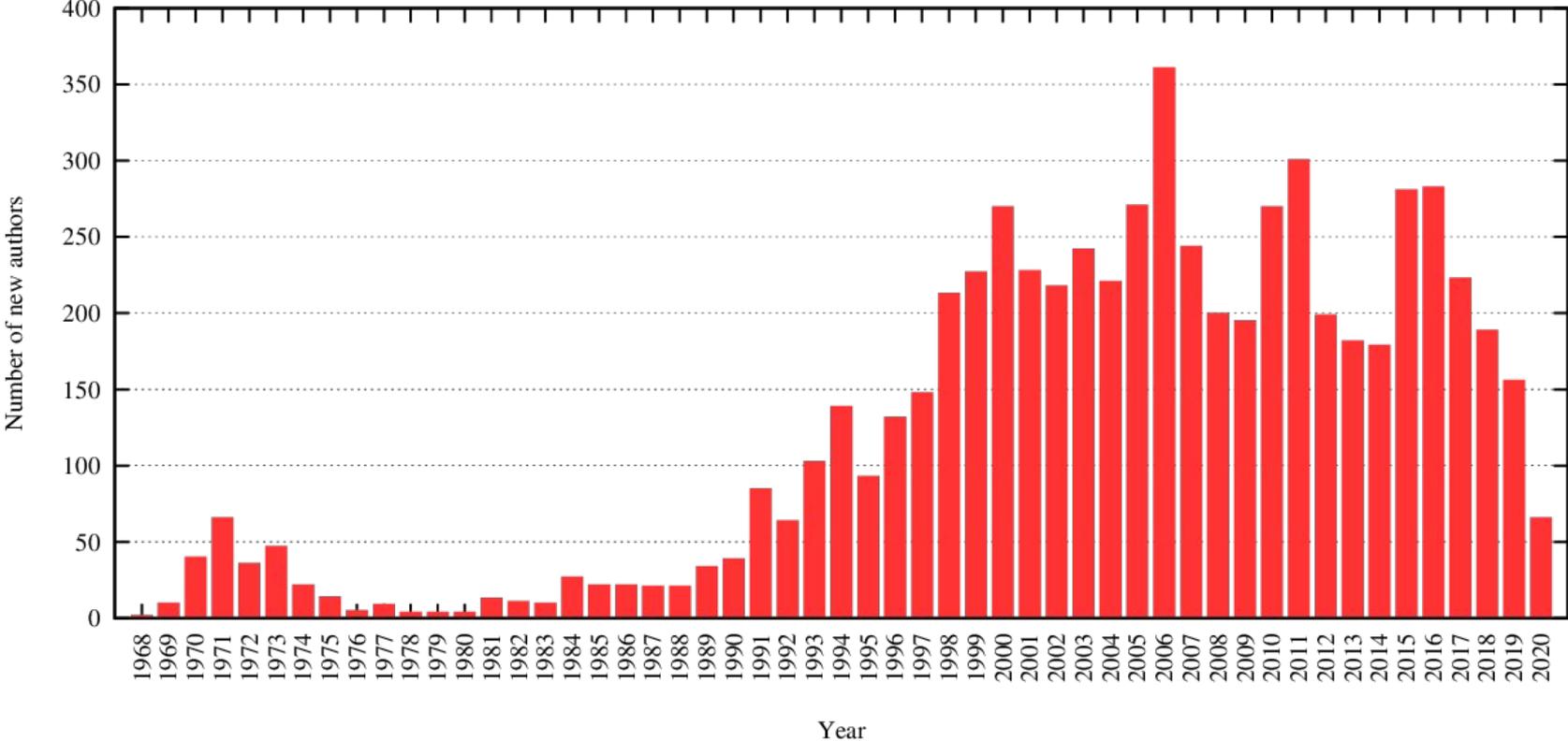
O Livro do IETF

<https://nic.br/media/docs/publicacoes/1/o-livro-do-ietf.pdf>

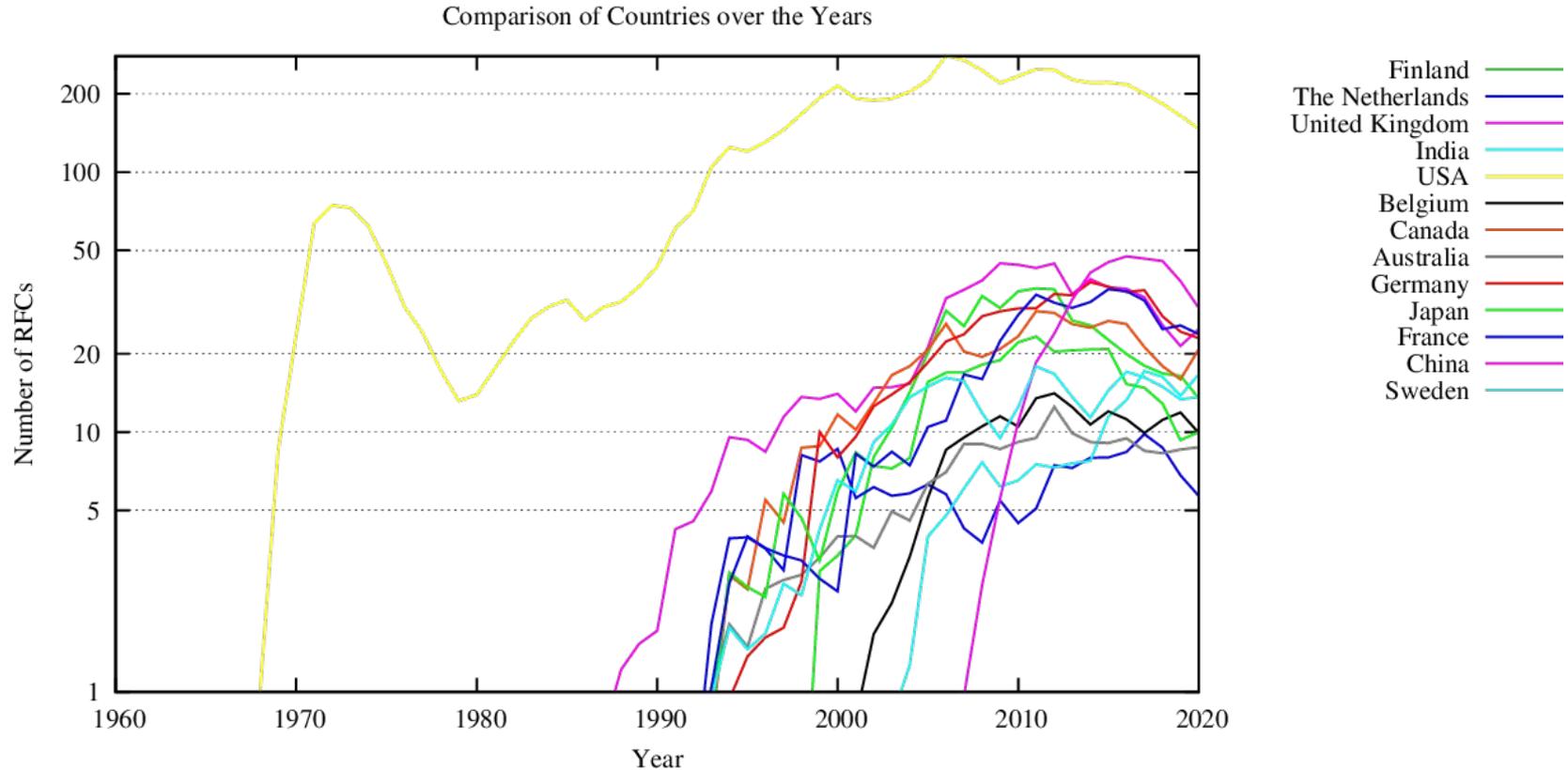


Document Stats -- What is Going on in the IETF?

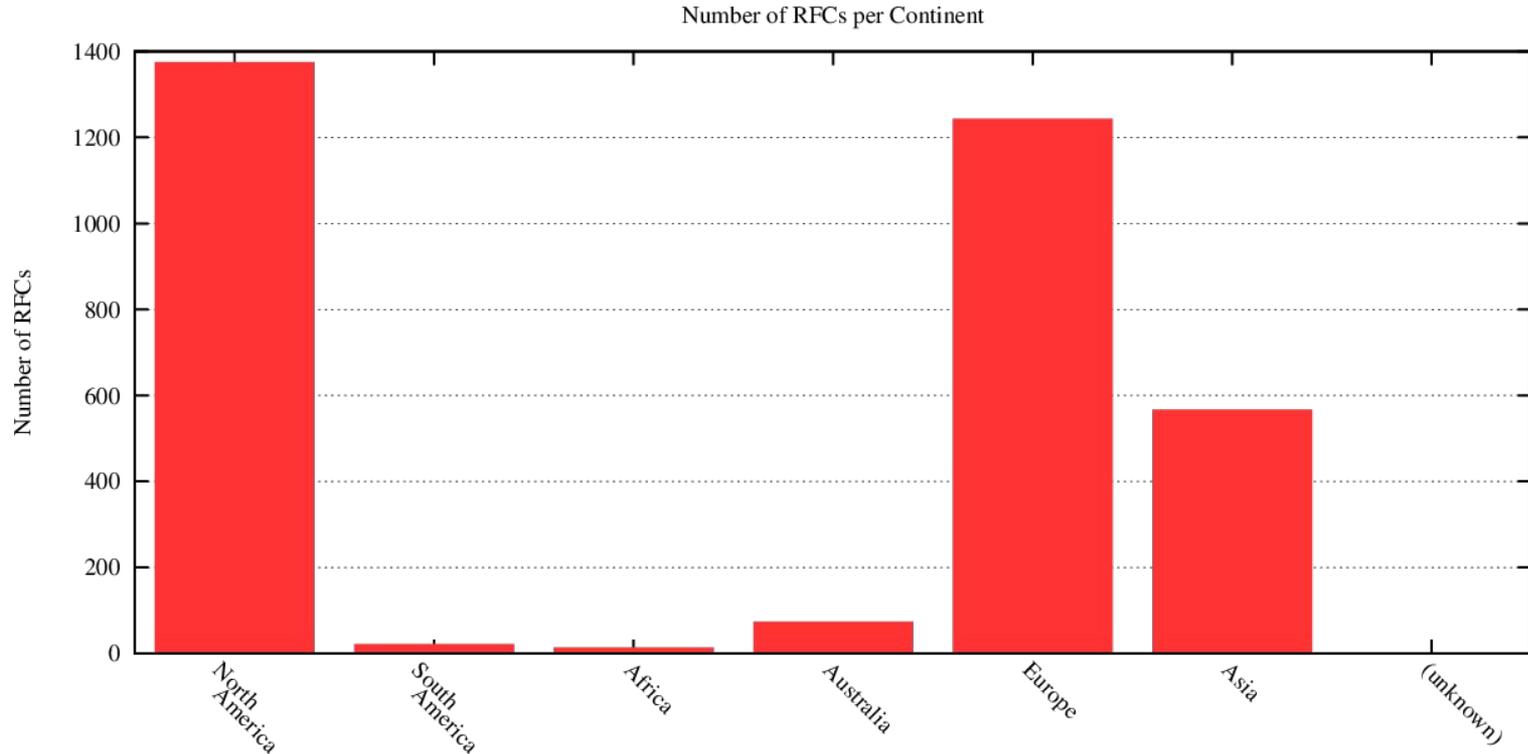
New RFC authors for each year



Document Stats -- What is Going on in the IETF?



Document Stats -- What is Going on in the IETF?



21 RFCs (1.19%) tem autores da América do Sul.
10 documents (0.09%) tem autores do Brasil.

O que é o WPIETF?

Evento anual que possui como principal objetivo o fomento e a expansão da presença do Internet Engineering Task Force (IETF) na América Latina e Caribe.

Funções do WPIETF

- Apresentar conceitos iniciais sobre o IETF (Internet Engineering Task Force), seu funcionamento e ações da comunidade latino-americana e caribenha junto a ele;
- Fomentar trabalhos que possam se tornar futuros drafts e RFCs.

Integrar novos membros ao IETF e melhorar a participação latino-americana no desenvolvimento de protocolos responsáveis pelo funcionamento da Internet.

História

- Criado em 2014 pelo grupo **IETF-LAC (IETF Latin America and Caribe)**.
- Atualmente está na sua **oitava** edição:
 - 2014 em Brasília - DF;
 - 2015 em Recife - PE;
 - 2016 em Porto Alegre - RS;
 - 2017 em São Paulo - SP;
 - 2018 em Natal - RN;
 - 2019 em Belém - PA;
 - 2020 na modalidade virtual.
 - **2021 em Florianópolis (evento virtual)**.

WPIETF 2021 (SUNDAY - 07/18)	
10:00	Opening Session: Prof. Michel Bonfim (UFC)
Technical Session 1	
10:30	Title: A machine learning domain ontology for populate knowledge base to support intelligent agents working in autonomous systems domains of the Internet infrastructure Authors: Juliao Braga (UFABC), Francisco Regateiro (Instituto Superior Técnico, Universidade de Lisboa), Joaquim L. R. Dias (Instituto Superior Técnico, Universidade de Lisboa), Itana Stiubiener (UFABC)
11:00	Title: Using the RFC 7575 and Models at Runtime for Enabling Autonomic Networking in SDN Author: Felipe A. Lopes (IFAL)
<i>Launch Time</i>	
14:00-16:00	Panel Discussion: Vantagens, Soluções e Oportunidades: Aumentando a participação da sociedade nos processos do IETF/IRTF Moderator: Prof. Flávio Wagner (UFRGS) Panelists: Lisandro Zambenedetti Granville (UFRGS), Stefan Machado/Davison Gonzaga da Silva (Anatel), Demi Getschko (NIC.br/CGI.br)
<i>Coffee Break</i>	
Technical Session 2	
16:30	Title: Enabling Human Rights with Universal Acceptance: The Path to Implementation of Internationalized Domain Names (IDN) and Email Addresses Internationalization (EAI) Authors: Sávyo de Moraes (UFRJ), Mark William Datysgeld (Governance Primer)
17:00	Title: A Semantic Model to Assist Policy Refinement Mechanisms for NFV-MANO Systems Authors: Michel Bonfim (UFC/UFPE), Fred Freitas (UFPE), Stenio Fernandes (UFPE)
17:30	Keynote Speaker: Juliana Guerra (Derechos Digitales/IETF-LAC) Title: Human Rights considerations in protocols design and deployment
18:30	Closing Session and Best Paper Award

All times listed are in **Brazil Time (BRT)** or UTC -3.

Patrocinadores e Parceiros





Que comecem as atividades!
O pai tá on!