



**CAN**  
**INTERNET**  
**PROTOCOLS**  
**AFFECT**  
**HUMAN**  
**RIGHTS?**

IRTF RG  
Human Rights Protocol Considerations  
(hrpc)

IETF 101  
Thursday March 21 2017  
15:50 - 17:50

Co-Chairs:

Niels ten Oever

Avri Doria

University of Amsterdam

APC

# Administrivia

Mailinglist

<https://www.irtf.org/mailman/listinfo/hrpc>

Github

<https://github.com/nllz/IRTF-HRPC>

Meetecho (remote participation)

<http://www.meetecho.com/ietf101/hrpc/>

Minutes

<http://etherpad.tools.ietf.org/p/notes-ietf-101-hrpc>

Intro website

<https://hrpc.io>

# Agenda

- Beginning (5 min)
  - Scribe, Note takers
  - Agenda Review
  - Assorted document status
- Update from the Hackathon (10 min)
- Luca Belli on “Network Self-Determination” (30 Min)
- Update on draft-irtf-hrpc-guidelines (10 min)
- Update on draft-irtf-hrpc-anonymity (10 min)
- Update on draft-tenoever-hrpc-association (10 min)
- Update on draft-tenoever-hrpc-political (10 min)
- Update on implementation of 451 (10 min)
- Human Rights Review Team (10 min)
  - Update on any drafts under RFC8280 considerations review
- Open Discussion
- AOB

# Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- BCP 9 (Internet Standards Process)
- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
- <https://www.ietf.org/privacy-policy/> (Privacy Policy)

# Document Review Request

- Document quality relies on reviews, please review documents in your working group and at least one other document from another working group.
- If you'd like documents you care about reviewed, put the effort in to review other documents.

# Status of research group

- October, 27, 2014 - Publication of [Proposal for research on human rights protocol consideration](#)
- IETF91 - November, 13, 2014: Presentation during [saag session](#)
- March 9, 2015 - Publication of [Proposal for research on human rights protocol considerations - 01](#)
- January 2015 - Proposed research group in the IRTF
- IETF92 - March 22 to 27, 2015 - Session & Interviews with members from the community
- June 2015 - Interim Meeting
- July 2015 - Publication of [Methodology](#) and [Glossary](#) drafts
- IETF93 - July 2015 - Session
- IETF94 November 2015 - Screening of film Net of Rights, updates of [Glossary](#), [Methodology](#), [Report](#) drafts, [Users draft](#), [paper](#), session
- December 2015 - Research Group chartered
- IETF95 April 2016 - Session, new [Research draft](#), updated [Report](#) and [Censorship](#) draft, & 3 talks
- IETF96 July 2016 - Session, new Research Draft - road tests, reviews, text & 3 talks
- IETF97 November 2016 - Session, new Research Draft - reviews, talk
- February 2017 - Research Group Consensus on draft-irtf-hrhc-research-11
- IETF98 March 2017 - Session, two news drafts, four talks, plenary talk
- IETF99 July 2017 - Session, four new drafts, one talk, running code, draft passed IRSG poll
- IETF100 November 2017 - Session, one RFC, two talks, hackathon, five new drafts
- IETF101 March 2018 - Session, four new drafts, one talk, hackathon, review team

# Context and objective of the RG

- To expose the relation between protocols and human rights, with a focus on the rights to freedom of expression and freedom of assembly.
- To propose guidelines to protect the Internet as a human-rights-enabling environment in future protocol development, in a manner similar to the work done for Privacy Considerations in RFC 6973.
- To increase the awareness in both the human rights community and the technical community on the importance of the technical workings of the Internet and its impact on human rights.

Presentation + Q&A: Luca Belli

# Network Self-determination: When building the Internet becomes a right



# Network Self-determination: When building the Internet becomes a right

22 March 2018

**IETF 101, London**

Luca Belli, PhD  
*luca.belli@fgv.br*  
*@1lucabelli*

Prefaces by Kathryn Brown  
and Jan Dröge

Luca Belli *Editor*

# Community Networks: the Internet by the People, for the People

Official Outcome of the UN IGF Dynamic  
Coalition on Community Connectivity

 FGV DIREITO RIO



 FGV DIREITO RIO



[communityconnectivity.xyz](http://communityconnectivity.xyz)



# Network Self-determination



# **Right** to free **d**evelopment of **n**etwork **i**nfrastructure



**Instrumental** condition to allow the  
full exercise of **h**uman **r**ights



*“the right to freely **associate** to define, in a **democratic** fashion, the design, development and management of network **infrastructure** as a **common good**, in order to freely seek, impart and receive **information** and **innovation**”*



[\[Docs\]](#) [\[txt|pdf\]](#) [\[draft-irtf-hrpc...\]](#) [\[Tracker\]](#) [\[Diff1\]](#) [\[Diff2\]](#)

INFORMATIONAL

Internet Research Task Force (IRTF)

Request for Comments: 8280

Category: Informational

ISSN: 2070-1721

N. ten Oever

ARTICLE 19

C. Cath

Oxford Internet Institute

October 2017

**Research into Human Rights Protocol Considerations**



*“the **d**esign and **d**evelopment of the  
Internet **i**nfrastructure have a growing  
**i**mpact on **s**ociety” (RFC 8280)*



*“Internet as an **e**nabling **e**nvironment  
for **h**uman **r**ights” (RFC 8280)*



# Network **S**elf-**d**etermination

A concept based on **H**uman **R**ights **L**aw  
and on **em**prirical **e**vidence



# 1. **O**bservable **p**henomena



Current World Population

**7,609,446,632**

[view all people on 1 page >](#)



**3,874,141,165**

Internet Users in the world

[sources](#)

[more info](#)

[watch all](#)

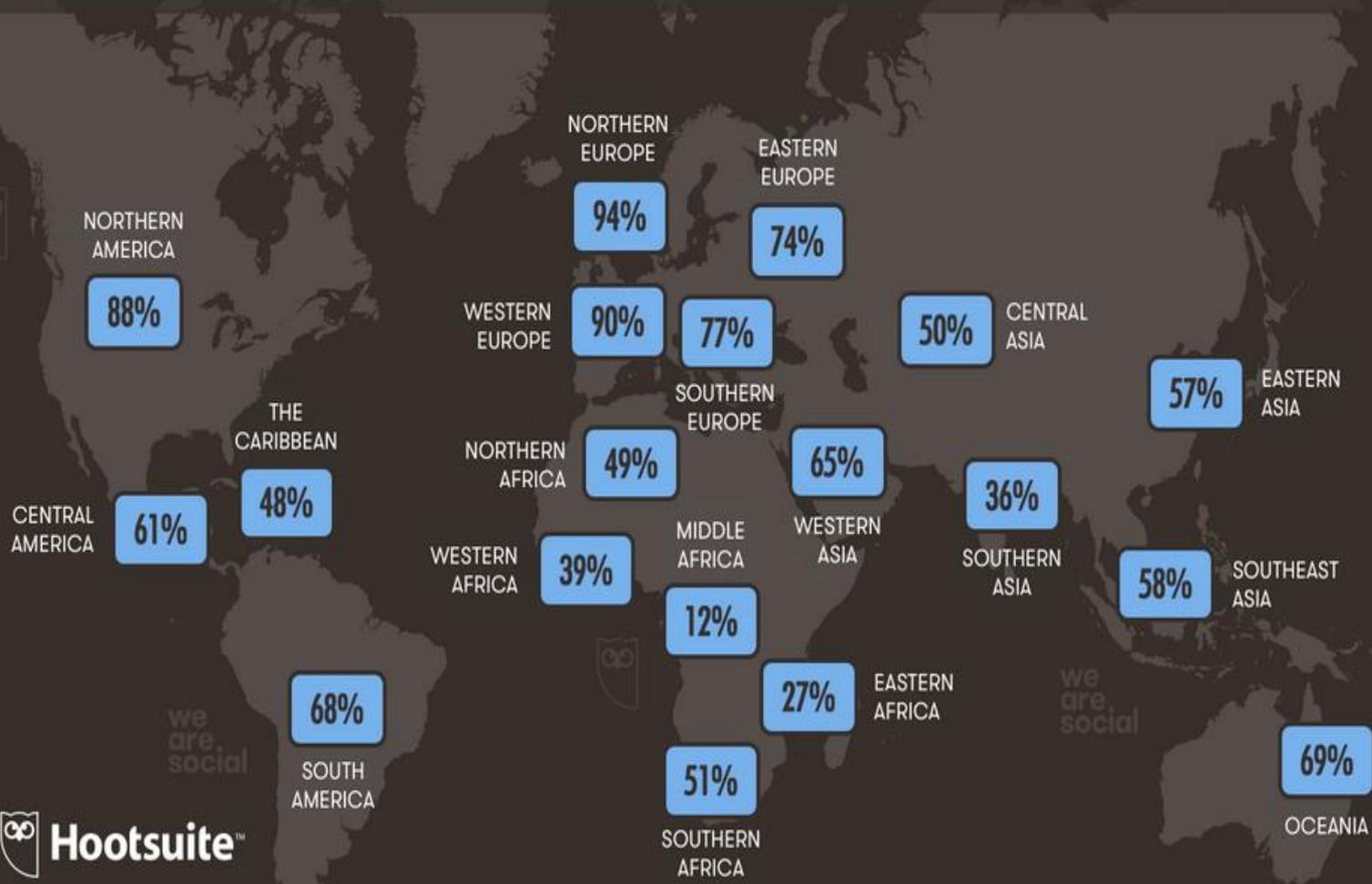
Current estimates from elaboration of data provided by:

- International Telecommunication Union
- World Bank Group
- United Nations Population Division

JAN  
2018

# INTERNET PENETRATION BY REGION

REGIONAL PENETRATION FIGURES, COMPARING INTERNET USERS TO TOTAL POPULATION

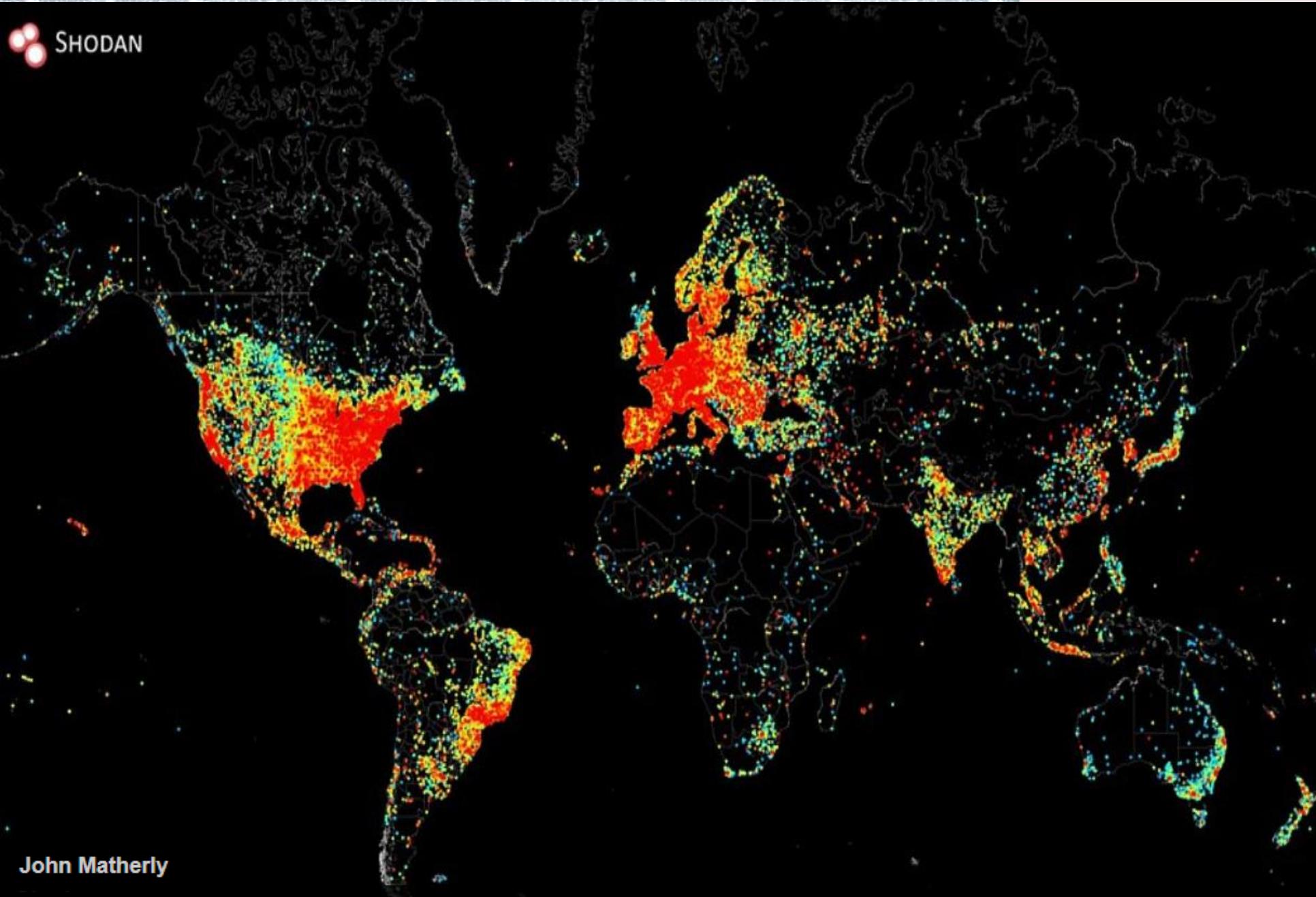


GLOBAL  
AVERAGE:  
53%





SHODAN



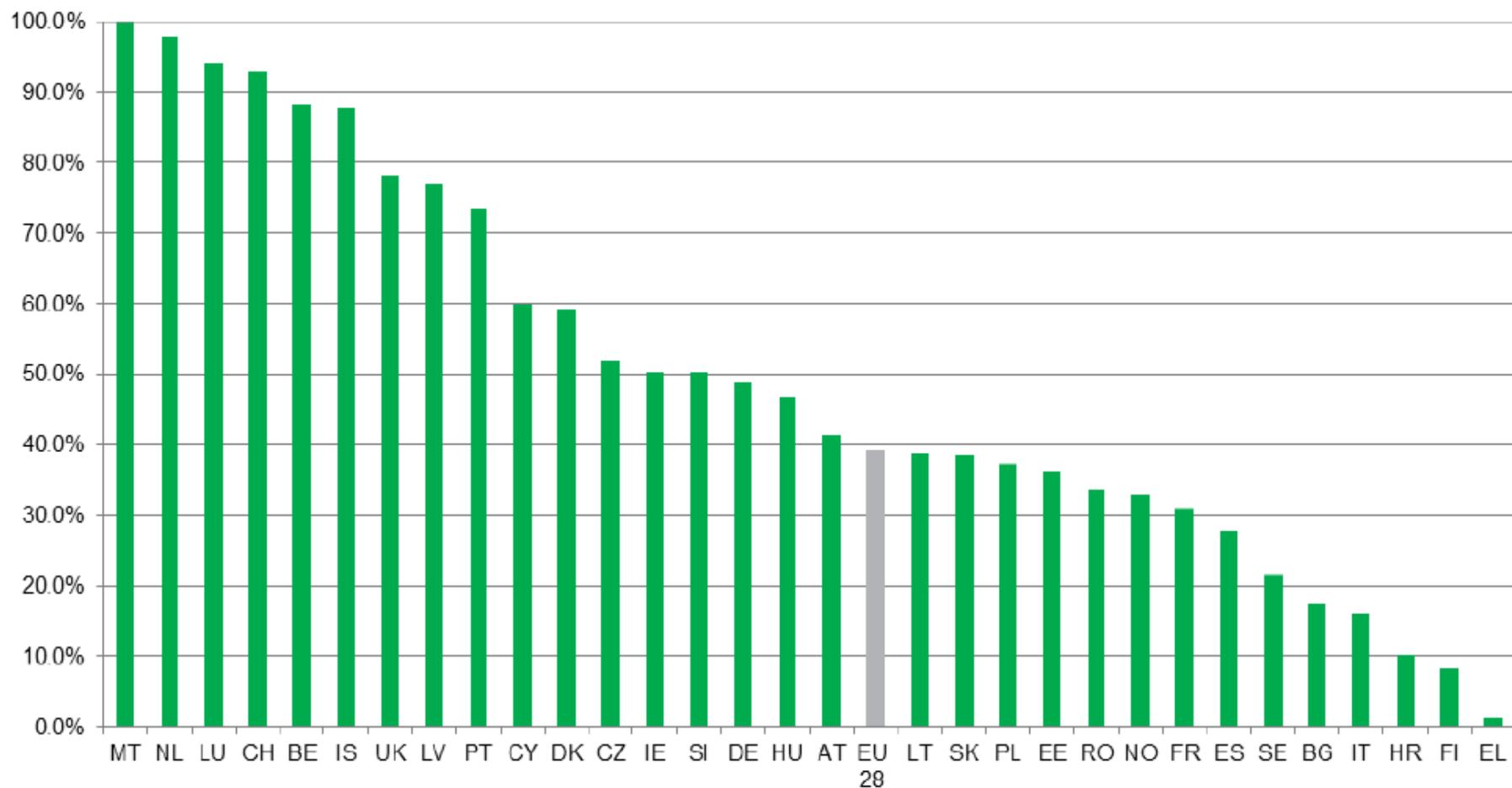




*“The **rural EU average** for NGA technologies, at **39.2%**, continued to be **considerably lower** than **total NGA coverage (76.0%)**” (EC 2017)*



### Overall NGA coverage by country, rural areas, 2016



Source: Broadband Coverage in Europe 2016, a study by IHS Markit and Point Topic for the European Commission

© 2017 IHS Markit



**Mainstream** networks are...  
not so mainstream



Internet Research Task Force (IRTF)  
Request for Comments: 7962  
Category: Informational  
ISSN: 2070-1721

J. Saldana, Ed.  
University of Zaragoza  
A. Arcia-Moret  
University of Cambridge  
B. Braem  
iMinds  
E. Pietrosevoli  
The Abdus Salam ICTP  
A. Sathiseelan  
University of Cambridge  
M. Zennaro  
The Abdus Salam ICTP  
August 2016

Alternative Network Deployments:  
Taxonomy, Characterization, Technologies, and Architectures



## “mainstream networks” (RFC 7962)

- usually **large** networks spanning wide areas



## “mainstream networks” (RFC 7962)

- usually **large networks** spanning wide areas
- controlled in a **top-down** fashion by the operator



## “mainstream networks” (RFC 7962)

- usually **large networks** spanning wide areas
- controlled in a **top-down** fashion by the operator
- require a **substantial investment**



## “mainstream networks” (RFC 7962)

- usually **large networks** spanning wide areas
- controlled in a **top-down** fashion by the operator -> **centralised approach**
- require a **substantial investment**
- **no user participation** in the network design, deployment and operation



Why people are **not connected**?

It depends....



# Why people are **not connected**?

- Connectivity is **unavailable**



# Why people are **not connected**?

- Connectivity is unavailable
- Connectivity is too **expensive**



## Why people are **not connected**?

- **Connectivity is unavailable**
- **Connectivity is too expensive**
- **Lack of **interest****



## Why people are **not connected**?

- Connectivity is unavailable
- Connectivity is too expensive
- Lack of interest
- Low level of **literacy**



What if **y**ou could build **y**our  
**n**etwork **y**ourself?



## 2. Community Networks



# Crowd-sourced networks



built by groups of **individuals** in a  
**bottom-up** fashion



**u**tilised and **m**anaged by the  
**l**ocal **c**ommunity as **commons**



# Distributed architecture





- Usually based on **wireless** technology (IEEE 802.11 family of standards)



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- Use **low-cost** Wi-Fi equipment and exploit **unlicensed** spectrum bands

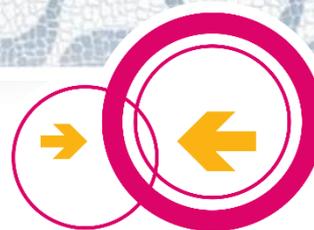


- Usually based on **wireless** technology (IEEE 802.11 family of standards)
- Use **low-cost Wi-Fi equipment** and exploit **unlicensed spectrum** bands
- Can also be based on **fibre** infrastructure

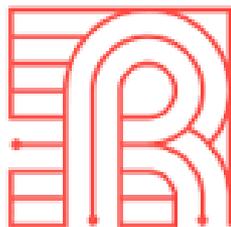


# guifi.net

Red de telecomunicaciones  
abierta, libre y neutral



# freifunk.net



# R H I Z O M A T I C A



# ALTER MUNDI



# broadband **B4** for the rural **RN** north



# Virtuous circle of **knowledge** and **innovation**



# **n**ew **s**ervices **by** the community **for** the community

- maps
- instant messaging apps
- VoIP services
- local e-commerce platforms
- e-health apps, etc.



## Positive externalities of DIY connectivity:

- Freedom of **expression**



## Positive externalities of DIY connectivity:

- Freedom of expression
- Education and capacity building



## **Positive externalities** of **DIY** connectivity:

- Freedom of expression
- Education and capacity building
- **Permissionless** innovation



## Positive externalities of DIY connectivity:

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- Permissionless innovation
- More “**interesting**” Internet



## Positive externalities of DIY connectivity:

- Freedom of expression
- Education and capacity building
- Permissionless innovation
- More “interesting” Internet
- **Decentralization**



## **Positive externalities** of **DIY** connectivity:

- Freedom of expression
- Education and capacity building
- Permissionless innovation
- More “interesting” Internet
- Decentralization
- **Employment** opportunities



## 2. Human Rights Law



*“the right to freely **associate** to define, in a **democratic** fashion, the design, development and management of network **infrastructure** as a **common good**, in order to freely seek, impart and receive **information** and **innovation**”*



1. *the right to freely **associate***
2. *to define, in a **democratic** fashion, the design, development and management of network **infrastructure** as a **common good**,*
3. *in order to freely seek, impart and receive **information** and **innovation***



**1.** *“the right to freely **associate**”*

*art. 20 UDHR, art. 22 ICCPR, etc.*



**3.** *“in order to freely seek, impart and receive **information** and **innovation**”*

Art. 19 UDHR; art 19 ICCPR, etc.



**2.** “to **define**, in a **democratic fashion**, the design, development and management of network infrastructure as a common good”



# (internal) **Self-determination**

A **governance** system in accordance with the  
**will** of the **people**



All peoples must be **free** to determine their political status and to **pursue** their **economic, social and cultural development**

*Art. 1 UDHR, 1(3) ICCPR & ICESCR, etc.*



# Informational **S**elf-**d**etermination



the capacity of the individual to **determine** the  
**disclosure** and **use** of his/her **personal data**

*“Census” decision, BVerfGE*



*“Personal data is the  
new **currency** of the  
digital world.”*

Meglana Kuneva, 2009





**The  
Economist**

MAY 6TH-12TH 2017

Theresa May v Brussels

Ten years on: banking after the crisis

South Korea's unfinished revolution

Biology, but without the cells

# The world's most valuable resource



**Data and the new rules  
of competition**



# Zero rating offerings



the practice of imposing limited **data caps** and **not counting data consumption** of **selected apps** against users' monthly **data allowance**



## **Purposes** of the **most common ZR** models?

- **lure (new) users** with a selection of **sponsored services**



## **Purposes** of the most common ZR models?

- lure (new) users with a selection of sponsored services
- orientate **user choice** and **attention** (*i.e.* **data production**) towards **integrated services**



## **Purposes** of the **most common ZR** models?

- lure (new) users with a selection of sponsored services
- orientate user choice and attention (*i.e.* data production) towards integrated services
- sell to app providers **preferential access** to the operator's consumers



## **Advantage** for **app** consumers



**Data consumption of specific services is not payed**



# Problems

**active** Internet **prosumers** are turned  
into **passive** app consumers



# Problems

**active** Internet **prosumers** are turned  
into **passive app consumers**

**sponsors/operators** **decide** which apps  
are **subsidized**



# Problems

**active** Internet **prosumers** are turned into  
**passive app consumers**

**sponsors/operators decide** which **apps** are  
**subsidized**

the **Internet** is **centralized** and **fragmented**  
into **clusters of sponsored apps**



# zerorating.info

Beta version 0.9.8

## Zero Rating Map

Powered by

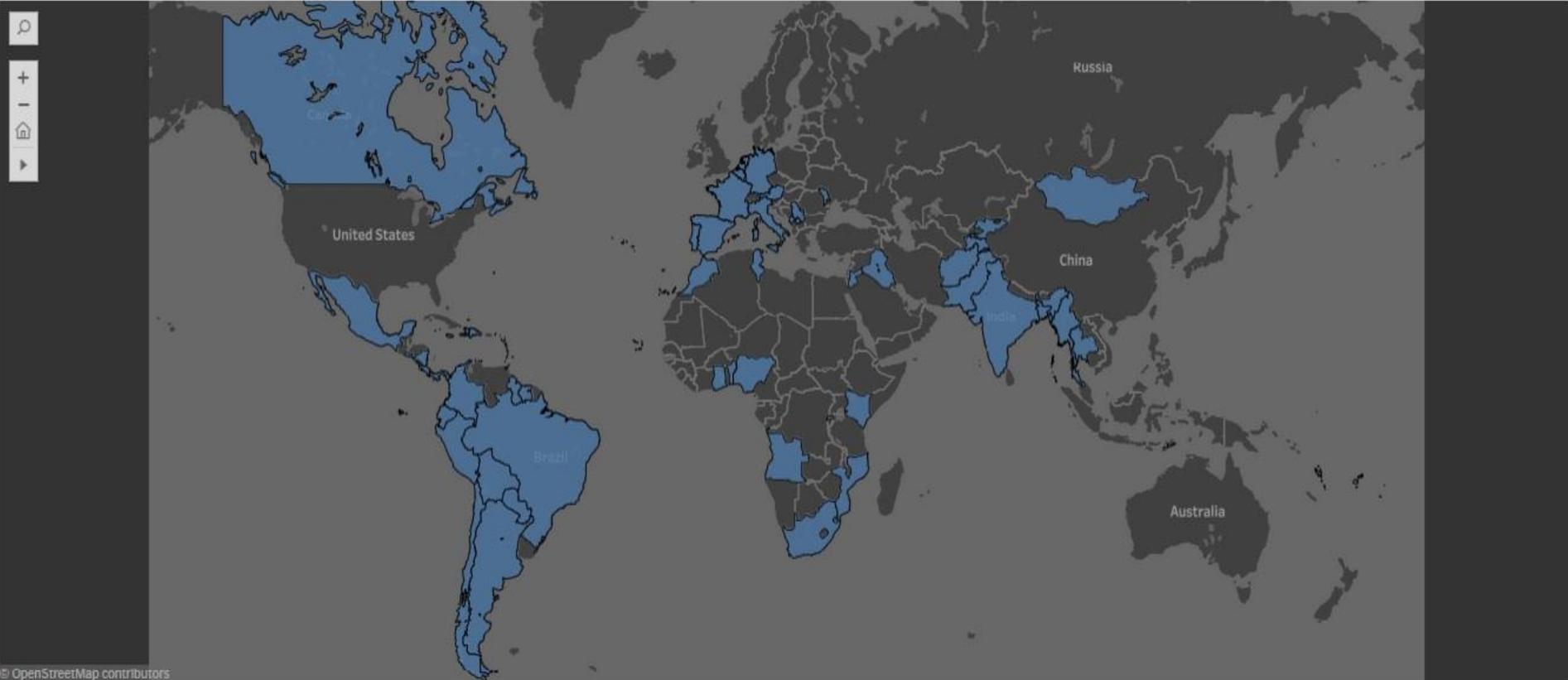


**Filters:**

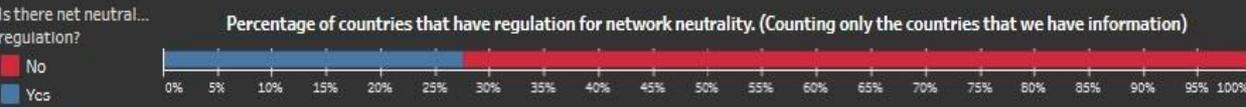
Is there net neutrality regulation?

Look for apps that are zero rating

Operators implementing zero rating offerings



© OpenStreetMap contributors



Want to contribute to this Map? <https://ethercalc.org/akbq9863vazq>  
 Want to know more about Zero Rating? <https://tinyurl.com/zerorating>  
 Want to know more about Net Neutrality? <http://www.networkneutrality.info/>



# **Minitel**ization of the Internet?



Why not allowing the **people** to **build** the  
**Internet themselves?**



Thank **you**  
for **your** attention!

Prefaces by Kathryn Brown  
and Jan Dröge

Luca Belli *Editor*

# Community Networks: the Internet by the People, for the People

Official Outcome of the UN IGF Dynamic  
Coalition on Community Connectivity

 FGV DIREITO RIO



 FGV DIREITO RIO



[communityconnectivity.xyz](http://communityconnectivity.xyz)

draft-irtf-hrpc-guidelines

RG adoption (yay)

s/intellectual property/protection of the moral and material interests resulting from any scientific, literary or artistic production of which he is the author (art 28)

draft-irtf-hrpc-anonymity

# Anonymity draft

Stéphane Bortzmeyer - AFNIC

IETF 101 - London

# Current state

- `draft-irtf-hrpc-anonymity`

- draft-irtf-hrpc-anonymity
- Very few reviews

# Open questions

- We could use more examples of the need to anonymity

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- We could use more examples of the need to anonymity
- The section about objections to anonymity needs work

- We could use more examples of the need to anonymity
- The section about objections to anonymity needs work
- Pay attention to `draft-mm-wg-effect-encrypt`, just adopted

# Tasks

- Too little activity until now. Is there still interest?

- Too little activity until now. Is there still interest?
- Read, comment, review, PR!

draft-tenoever-hrpc-association

# Freedom of Association and Internet Infrastructure

draft-tenoever-hrpc-association-04

Niels ten Oever – University of Amsterdam

Gisela Pérez de Acha – Derechos Digitales

"We shape our tools and, thereafter, our tools shape us."

- John Culkin (1967)

# 1. Overview of changes

- a) The right to protest is no longer an angle of analysis
- b) Removal of the filter bubble section in the literature review
- c) New vocabulary
- d) Different research questions
- e) Changes in structure
- f) Added two discussions
  - Protocols vs. Platforms
  - The Internet as an association

# New research questions

1. How does the internet architecture enable and/or inhibit freedom of association and assembly?
2. If the Internet is used to exercise the right to freedom of association, what are the implications for its architecture and infrastructure?

# New vocabulary

- Architecture
- Autonomous System (AS)
- Border Gateway Protocol (BGP)
- Connectivity
- Decentralization
- Distributed system
- Infrastructure
- Internet

# Internet

the Network of networks, that consists of Autonomous Systems that are connected through the Internet Protocol (IP).

A persistent socio-technical system over which services are delivered

A techno-social assemblage of devices, users, sensors, networks, routers, governance, administrators, operators and protocols

An emergent-process-driven thing that is born from the collections of the ASes that happen to be gathered together at any given time. The fact that they tend to interact at any given time means it is an emergent property that happens because they use the protocols defined at IETF

# New structure

## 6.1. Conversing

### 6.1.1. Mailing Lists

### 6.1.2. Multi-party video conferencing and risks

### 6.1.3. Internet Relay Chat

## 6.2. Peer-to-peer networks and systems

### 6.2.1. Peer-to-peer system architectures

### 6.2.2. Version control

## 6.3. Grouping together (identities)

### 6.3.1. DNS

### 6.3.2. ASes

## 7. Discussion: Protocols vs Platforms

## 8. Discussion: The Internet as an association

We argue that the Internet constitutes an association (and not an assembly)

The Internet is made of up interconnected ASes which jointly form an association. This association should be protected.

## 2. Discussion

If every network is an association within the association, does it have absolute freedom to implement its own rules?

Or does the importance of a functioning 'larger' association (the Internet) prevail over the preferences of the smaller associations (individual ASes)?

And how does this impact users who for assemblies and association across ASes

When do ASes become part of the association?  
Upon receiving AS? Upon announcing routes?  
Upon shipping packets?

What are the implications of stating that the  
Internet should be protected as an association?

# 3. Way Forward

## Technical

- The obligation to pass (some) packets?

## Legal

- What are the consequences of the right to freedom of association under international human rights law? What are the limitations? What does it enable?
- How are they applied to the Internet as an association?

Comments?

Disagreements?

Research Group adoption?

draft-tenoever-hrpc-political

draft-tenoever-hrpc-political-04

On the Politics of Standards

# How this fits in hrpc

Protocol impacts (RFC8280)

Dynamics impacting protocols (and architecture) development (this document)

What

Describing the political  
aspects of protocols

# Why

- Internet is part of the basic infrastructure of information societies

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- Protocols that are being developed in the IETF influence information societies

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- We need to take this into account if we want to understand our own decision making

# Why

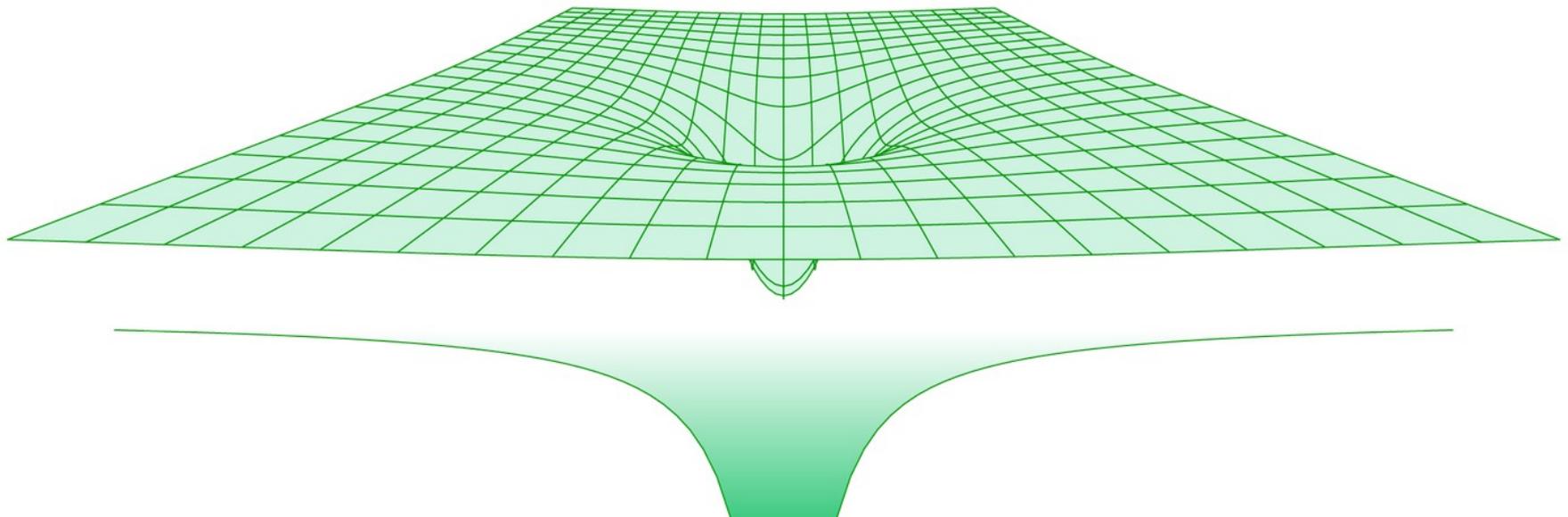
- Internet is part of the basic infrastructure of information societies
- Protocols that are being developed in the IETF influence information societies
- Part of this process is political (which includes economics), but this is not described in RFCs
- We need to take this into account if we want to understand our own decision making
- Making this explicit helps us to understand and take it into account (also if this is sometimes uncomfortable)

# Consolidation

Internet Architecture Board |

4 Mar 2018

One of the tasks of the Internet Architecture Board is to look at trends affecting the Internet. Recently, we've been discussing traffic flows and popular applications on the Internet, and the role of smaller vs. larger players in the Internet ecosystem.



Changes -03 & -04

- Typos

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- Typos
- Improvements on political stances based on off-list discussions

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# Changes -03 & -04

- Typos
- Improvements on political stances based on off-list discussions
  - Added position: 'All protocols are political sometimes'
    - law of unintended consequences
- Improved examples in the field of competition
- Added more dynamics about Standard development in general, and IETF in specific

# Quo vadis?

- Anything missing?
- RG adoption?

HTTP Status Code 451



**FIXING YOUR PROTOCOL FOR HUMAN RIGHTS**

# **HTTP 451: LEGALLY WITHHELD**



**HRPC & PUBLIC INTEREST TECHNOLOGY GROUP**

**IETF101 HACKATHON, LONDON, MARCH 2018**

**ALP TOKER • DANIEL RAMSAY • HIROTAKA NAKAJIMA**

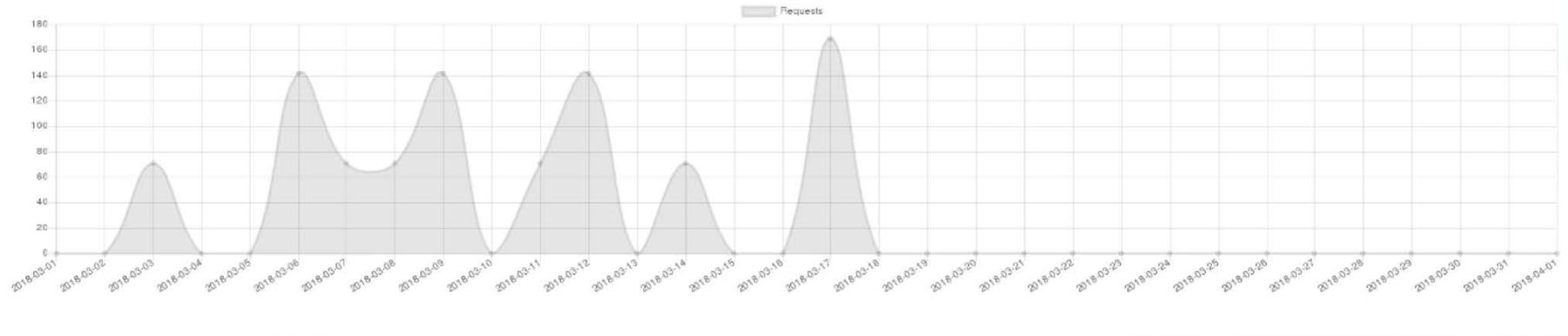


# FURTHERING DIGITAL TRANSPARENCY WITH 451

- **BLOCK-CRAWLER:**
  - **NEW CRAWLING ENGINE SUPPORTING MULTIPLE INSTANCES, STATE PERSISTENCE**
- **BLOCK-COLLECTOR:**
  - **SWITCH TO SQL BACKEND**
- **BLOCK-DASH:**
  - **TIME-SERIES DATA VISUALIZATION**
- **ACHIEVES BROADER VIEW OF 451 USAGE WORLDWIDE**
- **GLOBAL ADOPTION BY CONTENT PROVIDERS AND ISPS**
- **HELPS INFORM DIRECTION RFC7725 WITH VIEW TO HUMAN RIGHTS CONSIDERATIONS**

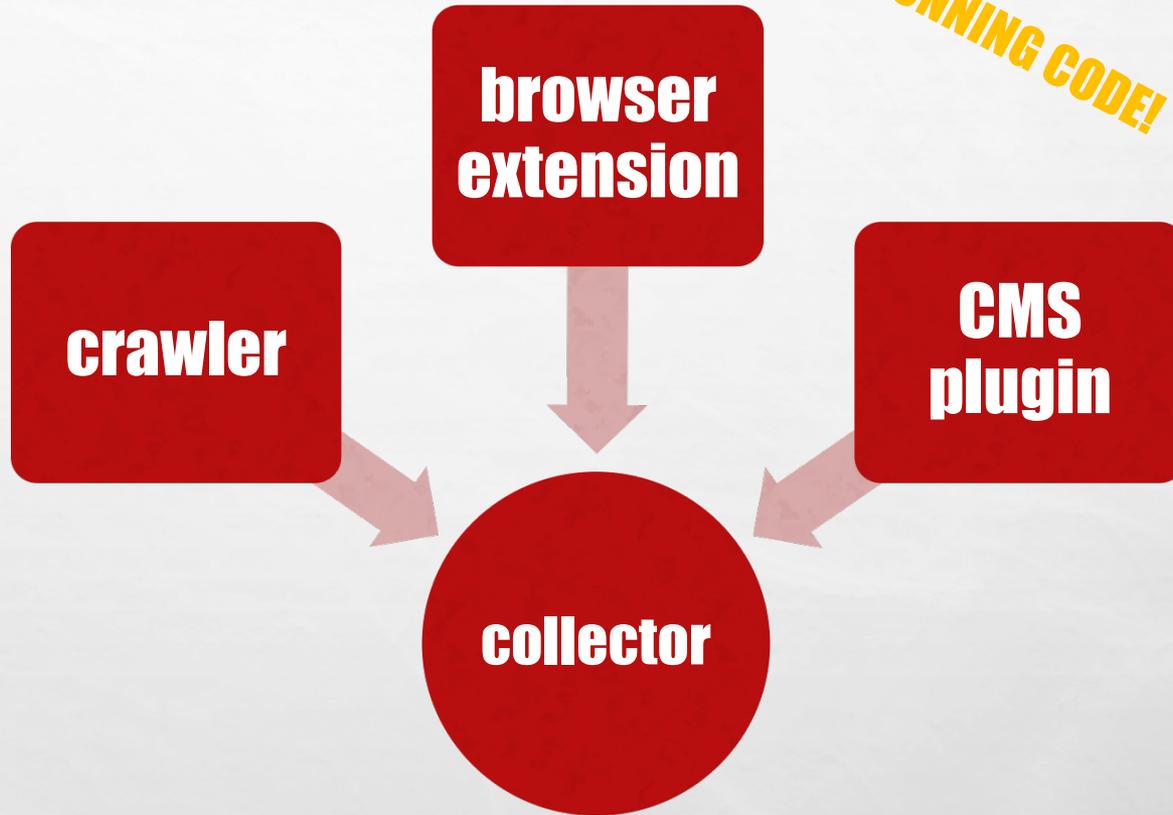
# 451 Reports

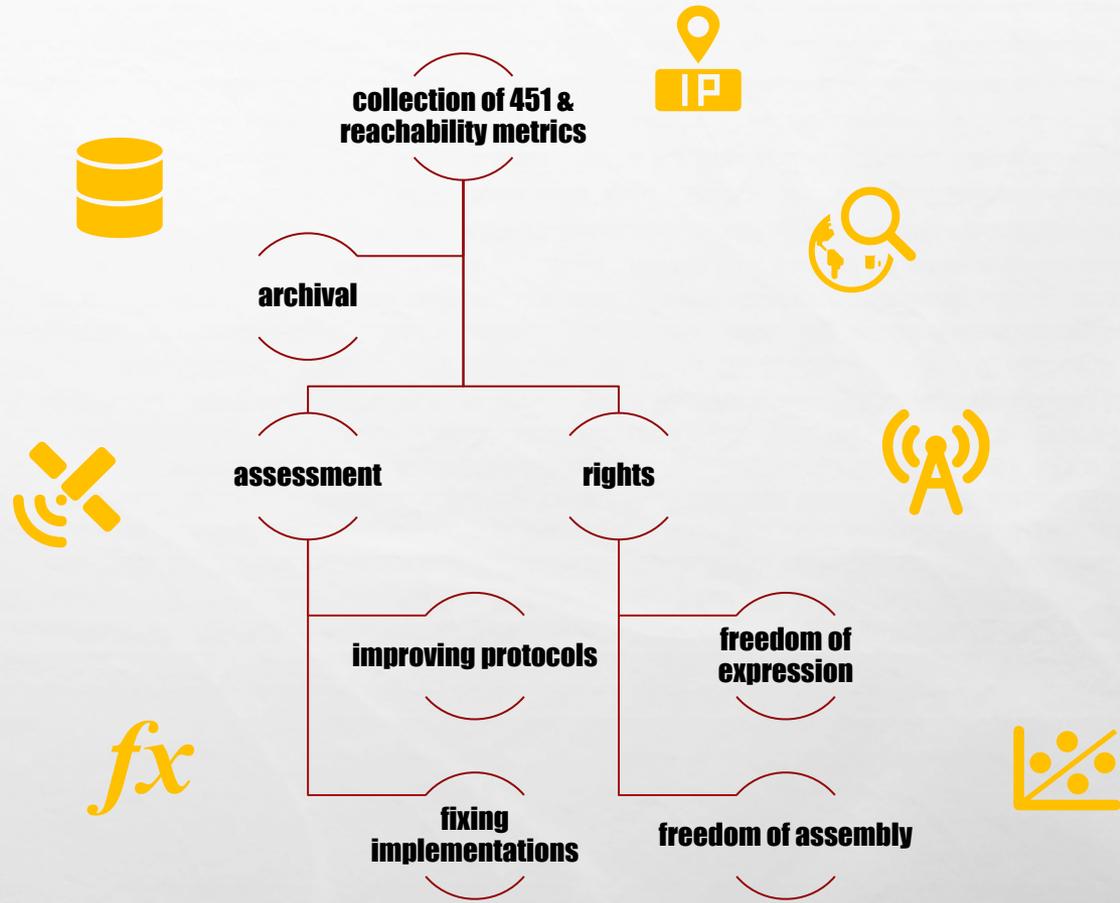
Date	URL	Blocked by	Report ID
2018-03-17 19:02	<a href="http://dretzq.co.uk/test451/test.php?p=1">http://dretzq.co.uk/test451/test.php?p=1</a>	dretzq.co.uk	951 <a href="#">🔗</a>
2018-03-17 19:02	<a href="http://dretzq.co.uk/test451/test.php">http://dretzq.co.uk/test451/test.php</a>	dretzq.co.uk	950 <a href="#">🔗</a>
2018-03-17 19:00	<a href="http://dretzq.co.uk/test451/test.php?p=5">http://dretzq.co.uk/test451/test.php?p=5</a>	dretzq.co.uk	949 <a href="#">🔗</a>
2018-03-17 19:00	<a href="http://dretzq.co.uk/test451/test.php?p=4">http://dretzq.co.uk/test451/test.php?p=4</a>	dretzq.co.uk	948 <a href="#">🔗</a>
2018-03-17 19:00	<a href="http://dretzq.co.uk/test451/test.php?p=3">http://dretzq.co.uk/test451/test.php?p=3</a>	dretzq.co.uk	947 <a href="#">🔗</a>
2018-03-17 19:00	<a href="http://dretzq.co.uk/test451/test.php?p=2">http://dretzq.co.uk/test451/test.php?p=2</a>	dretzq.co.uk	946 <a href="#">🔗</a>
2018-03-17 19:00	<a href="http://dretzq.co.uk/test451/test.php?p=1">http://dretzq.co.uk/test451/test.php?p=1</a>	dretzq.co.uk	945 <a href="#">🔗</a>
2018-03-17 19:00	<a href="http://dretzq.co.uk/test451/test.php">http://dretzq.co.uk/test451/test.php</a>	dretzq.co.uk	944 <a href="#">🔗</a>
2018-03-17 18:53	<a href="http://dretzq.co.uk/test451/test.php?p=1">http://dretzq.co.uk/test451/test.php?p=1</a>	dretzq.co.uk	943 <a href="#">🔗</a>
2018-03-17 18:53	<a href="http://dretzq.co.uk/test451/test.php">http://dretzq.co.uk/test451/test.php</a>	dretzq.co.uk	942 <a href="#">🔗</a>



**IETF101 - HRPC & PUBLIC INTEREST TECHNOLOGY GROUP**

IETF101 IETF100 IETF99





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# FIX YOUR PROTOCOL FOR HUMANS

- **ALP TOKER**

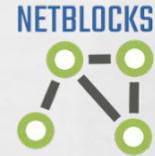
- **DANIEL RAMSAY**

- **HIROTAKA NAKAJIMA**

- **CORINNE CATH**
- **DKG**
- **NIELS TEN OEVER**
- **SHIVAN KAUL SAHIB**
- **STEPHANE BORTZMEYER**

- **REAL-TIME 451 TRACKER**

- [HTTPS://NETBLOCKS.ORG](https://netblocks.org)



- **RESOURCES**

- [HTTPS://GITHUB.COM/NTBLK](https://github.com/NTBLK)
- [HTTPS://WWW.IETF.ORG/ARCHIVE/ID/DRAFT-451-IMP-REPORT-00.TXT](https://www.ietf.org/archive/id/draft-451-imp-report-00.txt)

Human Rights Review Team

# Human Rights Review Team

Stéphane Bortzmeyer - AFNIC

IETF 101 - London

# What is a review team?

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- A team that reviews drafts,

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- Can be very official or not official at all,

# What is a review team?

- A team that reviews drafts,
- Can be very official or not official at all,
- No power of decision: they just send comments.

# Current state

- Mailing list created. You may subscribe  
<https://www.irtf.org/mailman/listinfo/hr-rt>

- Mailing list created. You may subscribe  
<https://www.irtf.org/mailman/listinfo/hr-rt>
- No review done yet

# Working methods

- Focus on IETF-wide Last Call drafts,

- Focus on IETF-wide Last Call drafts,
- Follow `draft-tenoever-hrpc-guidelines` (son of RFC 8280, section 6)

other drafts, papers, ideas

AOB // Open Mic

```
if write code(protocols):
    consider human rights implications
elif run internet infrastructure:
    respect human rights
elif engage in internet governance:
    build in human rights protections
else
    carry on and use FLOSS
```