RIPE NCC Update

Hans Petter Holen
Managing Director

Introduction to the RIPE NCC

What we do

- One of five Regional Internet Registries (RIRs)

- We distribute IP addresses and ASNs - and maintain the registry of which organisations hold which addresses - for Europe, the Middle East and parts of Central Asia

What we do

- Our members are ISPs, governments, academic institutions and other organisations running their own networks

- Also provide a number of technical services and tools, including K-root

- Source of technical expertise for a range of stakeholders

- Secretariat for the RIPE community

  - Develops policy relating to Internet address space (open to anyone)

Mission

- As an authority on unique Internet number resources, we enable people to operate and develop the Internet

- As the secretariat for the RIPE community, we are a trusted steward of the open, inclusive, collaborative Internet model, engaging and connecting people and communities

- As a neutral source of information and knowledge, we actively contribute to the stability and evolution of the Internet

RIPE NCC Strategic Objectives

1	Support an open, inclusive and engaged RIPE community
2	Operate a trusted, efficient, accurate and resilient Registry
3	Enable our members and community to operate one secure, stable and resilient global Internet
4	Maintain a stable organisation with a robust governance structure
5	Attract engaged, competent and diverse staff

Plans for the Year Ahead

- Activity Plan and Budget 2023:

  https://www.ripe.net/publications/docs/ripe-786

- Five-Year Strategy 2022-2026:

  https://www.ripe.net/publications/news/announcements/ripe-ncc-strategy-2022-2026-published

Priorities for 2023

- Be resilient in the face of political, legislative and regulatory changes that have the potential to affect our operations

- Secure Internet number resources by operating a resilient and secure Resource Certification Trust Anchor and promote RPKI

- Be a centre of excellence for data, measurements and tools that provide insight on the Internet and its operations

- Maintain security and compliance with best practices and applicable regulations

What we've been working on

Registry

- Number of LIRs on IPv4 waiting list is growing (1,218 currently)

  https://www.ripe.net/manage-ips-and-asns/ipv4/ipv4-waiting-list

- Looking at ways to improve our internal controls, efficiency and response times

- Extra work in terms of EU sanctions compliance

RPKI

- RPKI is one of our main focus areas for 2023

- Our four goals for the year are:

  - Improve resilience through better geographic distribution

  - Improve the user experience through new UI

  - Enhance compliance by undertaking an ISAE3000 audit and publishing our findings

  - Work with other RIRs for more unified maintenance of RPKI data

- We plan to launch "Publish in Parent" soon to provide more resilience to the RPKI ecosystem

E-learning and Certification

- RIPE NCC Certified Professionals:
  BGP Security Associate exam is now live

- RIPE NCC Academy has new content:

  - BGP Security e-learning course

  - Internet Governance e-learning course

  - "Why RPKI?" micro-learning

RIPE Atlas

- Measures Internet connectivity and reachability in real time

- More than 11,900 probes spread out across 5,500+ ASNs in 170 countries

- Goal is to cover at least the top five ASNs from all underrepresented regions

https://atlas.ripe.net/landing/about/

Internet Country Reports

- Two reports in 2022

  - Bulgaria, Moldova and Romania

  - The Nordic Region

- Analyse the Internet landscape in each region

  - Market landscape, competition, potential for growth

  - Address space, transfers, IPv6 deployment

  - Routing, traffic exchange and routing security

  - Domestic and international connectivity

  - Access to the DNS
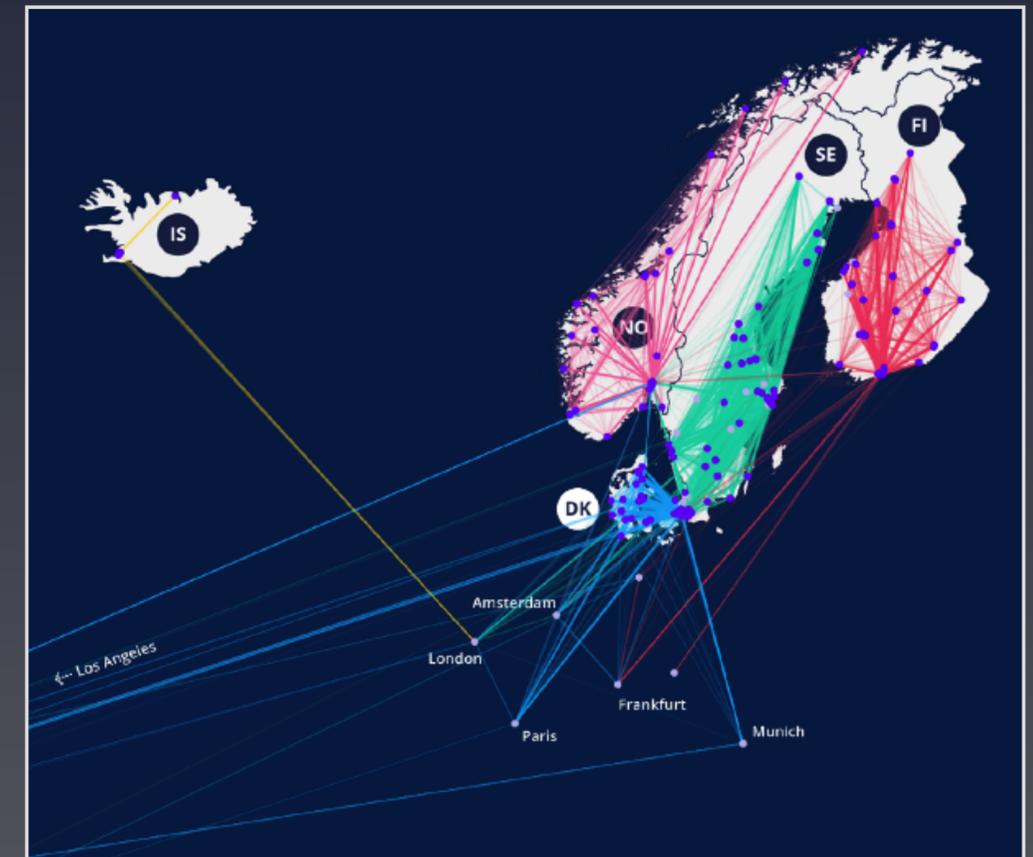
RIPE Labs

- Ideas and perspectives from RIPE NCC staff and the wider RIPE community

- Over 18,000 monthly readers

- Launched a podcast in 2022

- Topics include Internet governance ecosystem, sanctions, upcoming legislation and more

How Sanctions Obstruct Access to the Internet

Alun Davies • 21 Dec 2022

Economic sanctions have a very clear but complicated impact on people's access to the global Internet. In this episode, I talk to Dr Farzaneh Badiei from Digital Medusa about how sanctions obstruct access to the Internet.

podcast   events   governance   53 ♡ 0

A Plea for Climate Justice - Report from the IAB Workshop on e-Impact

Vesna Manojlovic • 19 Dec 2022

Here is an urgent plea from network operators, academic researchers and activists: we must decrease energy consumption and materials usage in Internet operations, governance, and standardisation. This is our only hope if we're to adapt to the current climate crisis and prevent catastrophic conseque...

community   sustainability   +1   24 ♡ 1

Looking Back on the OECD Digital Economy Ministerial

Chris Buckridge • 16 Dec 2022

While not a major calendar event for many in the Internet technical community, the OECD's 2022 Digital Economy Ministerial Meeting nonetheless provided a timely and compelling platform for dissecting the challenges, concerns and opportunities of our information society.

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Language Support

- New translation wiki:

  https://translated.ripe.net/

- Turkish, Farsi, Spanish, Italian, Russian and Arabic

- Initial focus on practical information for members

- Also translating some of our published materials, such as our Internet Country Reports

Expanding Our Regional Outreach

- Focus on more regional outreach in the past year

- Central Asia Peering and Interconnection Forum (CAPIF)

  - Almaty, Kazakhstan

- RIPE NCC Days

  - Tashkent, Uzbekistan

- Internet Measurement Days

  - Serbia and Georgia

- Community decided to halt Eurasian Network Operators Group (ENOG) meetings, but we continue to host other events in the region

Public Policy &
Internet Governance

Roundtable Meetings

- We hold Roundtable Meetings for Governments and Regulators throughout our service region

  - Europe

  - Central Asia

  - Arab countries

  - Bilateral engagements with Ukraine and Russia

  https://www.ripe.net/participate/meetings/roundtable

ITU Engagement

- RIPE NCC is a sector member of ITU-T and ITU-D

- Our mission:
  - Provide technical expertise
  - Ensure ITU remains within its mandate
  - Promote multistakeholder approach

It's been busy…

- Major conferences rescheduled from 2020 and 2021

WTPF-21	Policy	Virtual	16-18 Dec 2021
WTSA-20	Standards	Geneva / virtual	1-9 March 2022
WTDC-21	Development	Kigali	6-15 June 2022
PP-22	High-level	Bucharest	26 Sept - 14 Oct 2022

Internet Resolutions

- Our main focus is on the so-called "Internet Resolutions"

- Some Member States want a bigger role for the ITU in Internet governance and management

- The RIPE NCC wants Internet governance and standards development to take place in multistakeholder venues

PP-22 outcome

✓ Not much change overall

✓ Little more language around working with all stakeholders

⊖ No change to CWG-Internet

✕ Inclusion of "new and emerging ICTs/telecommunications"

https://labs.ripe.net/author/suzanne_taylor_muzzin/reflections-on-the-itu-plenipotentiary-conference-2022/

Other ITU issues

- "New IP" and other alternative Internet architecture ideas cropping up in various Study Groups

- CWG-Internet proposals highlighting sanctions and other issues with RIRs

- Increasing industry engagement

  - We have shared goals > let's work together

Contributions to Legislative Proposals

- We contribute RIPE NCC and technical community perspective

  - Goal: interfere with Internet's technical core as little as possible

- Lots of EU proposals in the past few years

  - Digital Services Act / Network and Information Security 2 / Cyber Resilience Act

- Also individual governments throughout our service region

- Also ITU, UN, IGF, BEREC

- Let's work together

  https://www.ripe.net/participate/internet-governance/multi-stakeholder-engagement/
  ripe-ncc-contributions-to-external-consultations

AFRINIC

- Legal attacks by Cloud Innovation Ltd. pose major challenge

- Process is playing out in Mauritius courts

- RIRs are committed to supporting the Internet Number Registry system, of which AFRINIC is an integral part

  https://labs.ripe.net/author/hans_petter_holen/supporting-the-internet-number-registry-system/

AFRINIC: NRS

- Number Resource Society (NRS) has links with Cloud Innovation and is in no way affiliated with the RIRs

- Approaching governments about a "government working group"

- If you have questions about Internet number resources or Internet governance in general: please talk to us!

Country Code XK

- Request from community to use XK country code in RIPE Database for parties legally established in Kosovo

    - Already used by European Commission, IMF, SWIFT and others

- Ideally added to ISO 3166-1 list used by all RIRs

- RIPE NCC board looking into this

- An accurate registry is our primary goal

Challenges

- Navigating geopolitical tensions and conflict

- Proactively defending the Regional Internet Registry (RIR) system and a multistakeholder approach

- Keeping core Internet functions separate from politics

- Mitigating unintended consequences of public policies

- Maintaining a stable core infrastructure that enables a global, unfragmented and interoperable Internet

Questions ?
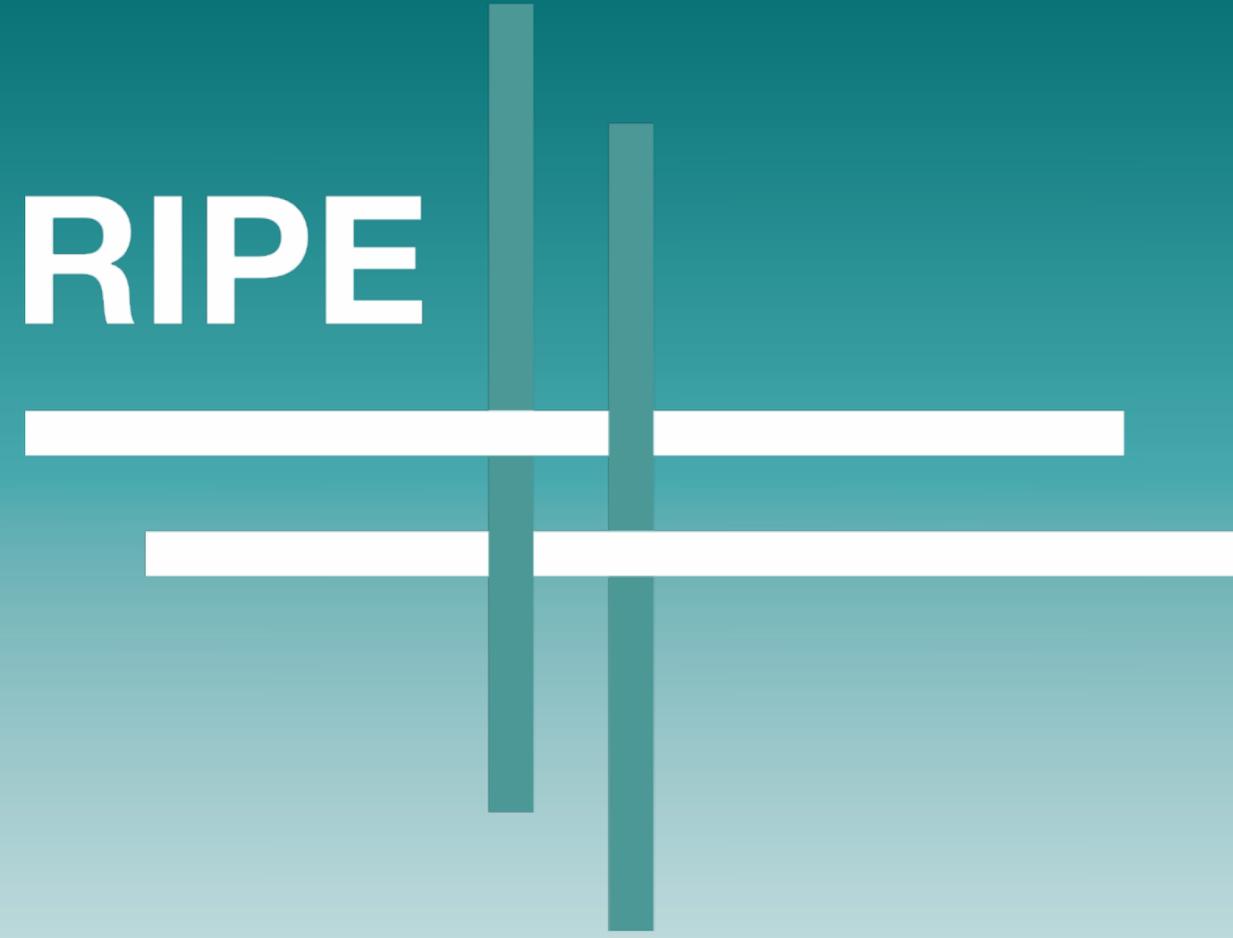
RIPE Community Update

Mirjam Kühne, RIPE Chair

What is RIPE?

- Réseaux IP Européens

- Anyone interested in IP networks

  - IP address management, governance, BCPs

- Started in 1989 by network operators in Europe

- OPEN to anyone, no membership

- Coordinate, collaborate, share information & knowledge

RIPE

What does RIPE do?

- IP Address Policy

  – Developed by open community

  – Decided by consensus by those who use the resources

  – Implemented by the RIPE NCC as the RIR

  – List of current policy proposals

.. and a lot more

- Network operations

  - DNS, Anti-Abuse, Routing, Database, Connectivity, IPv6

- Collaboration and Information Sharing

  - Measurements, Analysis and Tools (research and operations)

  - Cooperation (Governments and technical community)

  - Internet of Things

  - Open Source

RIPE

Current Topics

- RIPE Governance and Documentation

- Improved remote participation facilities

- Two in-person RIPE Meetings in 2022

  - Policy proposal for Internet Exchange Points

  - Changes to IP address transfer policy

  - Best Current Practices for open DNS resolvers

  - Guidelines for abuse-handlers

RIPE 86 in May in Rotterdam, The Netherlands

Questions?