



RIPE NCC

RIPE NETWORK COORDINATION CENTRE

Roundtable Meeting for Governments and Regulators in the SEE Region

Second South East Europe Roundtable Meeting
Regional Internet Development Discussion

D. Miloshevic | 28 September 2023 | Montenegro

Agenda



14:00 - 14:15 Welcome and Introductions, D. Miloshevic, Cooperation WG Co-Chair

14:15 - 14:30 RIPE NCC Update - Athina Fragkouli, Chief Legal Officer, RIPE NCC

14:30 - 15:00 Regional Internet Developments Discussion

15:00 - 15:30 IPv6 Security - Alvaro Vives, RIPE NCC

15:30 - 15:50 Coffee Break

15:50 - 16:10 BEREC IP-IC Work

16:10 - 16:30 Global Digital Compact Update

16:30 - 16:40 Open Q&A

16:40 - 17:00 Next Steps & Wrap-Up

RIPE NCC



- The RIPE NCC is a Regional Internet Registry (RIR)
- Allocates assignments of Internet number resources - IP addresses for Europe, Middle East and parts of Central Asia
- Maintains LIR records
- Resource Certification RPKI
- Public Policy Discussions and Internet Governance

1	Accurate	Database	Registry
2	RPKI	Certificates	Records
3	Trainings	Ripe DB	Tools
4	Country	Reports	Insights
5	IPv6	RPKI	Trainings

Services for the Community



- Maintenance of the [RIPE Database](#)
- Management of one of the 13 root name servers ([K-root](#))
- [DNS services](#) such as AuthDNS and DNSMON
- Information services, including [RIPE Atlas](#), [RIPEstat](#), [RIS](#) and [RIPE IPmap](#)
- Research and analysis, such as our [Internet Country Reports](#)
- [Outreach activities](#) with governments and industry-related organisations
- [Community engagement](#) through meetings and other events
- Learning and development through our [training services](#) and [Certified Professionals](#) programme

Some RIPE NCC Outreach Activities



- Two RIPE Meetings
- Working Group meetings
- Member lunches
- Online Open House sessions
- Roundtable meetings
- Training and certification
- RIPE Academic Cooperation Initiative (RACI)
- Fellowship Programme for SEE Meetings
- RIPE NCC Community Projects Fund



Roundtable Meetings

SEE Region

First SEE Roundtable, April 2023



- Held in parallel with the SEE 11 meeting
- Agenda
 - SEE 202i Internet Country report
 - Global Digital Compact
 - IPv6 security
- Report interest in IPv6 training and GDC discussions
- Outcome IPv6 training to be organised in Montenegro in October 2023

<https://labs.ripe.net/country-reports/>

https://www.ripe.net/participate/meetings/regional-meetings/see/see-11/desiree-see-roundtable-2023_country-report.pdf

SEE MAP

EU Countries:

.SI, .HR, .RO, .BG, .GR

Non-EU Countries:

.AL, .MK, .RS, .BA, .ME

.XK*





Regional Internet Development Discussion

Internet Country Reports



- Identify common issues for the region, areas for improvement
- Identify specific issues relevant to the country
- Provide data and insights into IP assignments, uptake of ROAs, IPv6 uptake, inter-country transfers, etc.
- Bring value to local technical communities
- <https://labs.ripe.net/author/ripe-labs-editor/country-reports/>

Takeaways



IPv4 shortage in region

Most IPv4 transfers stay within region

IPv6 capability very low throughout region Routing is generally efficient

Limited diversity in international connectivity



April '23- IPv4 space covered by ROAs



RPKI - Routing Public Key Infrastructure uptake high in the SEE region

Current amount of IPv4 space covered by ROAs:

Albania: 91%

Bosnia and Herzegovina: 82%

Croatia: 24%

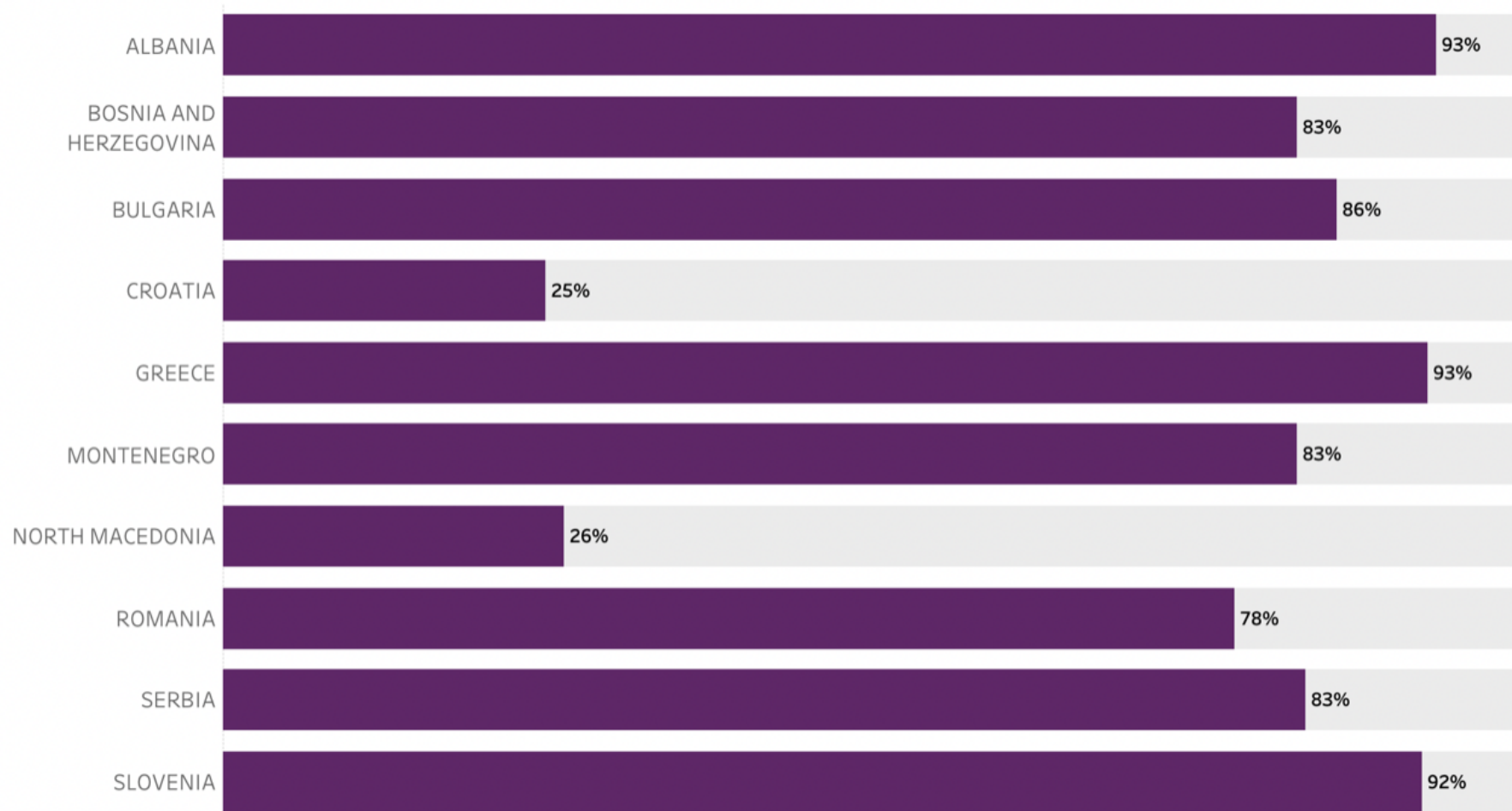
Montenegro: 77%

North Macedonia: 26%

Serbia: 83%

Slovenia: 92%

Sept '23 Route Origin Authorisation Coverage update



Cryptographically Signed Object - ROA

Members can create ROAs via the RIPE NCC LIR portal in a few simple steps:

1. Log in to <https://my.ripe.net>.
2. Click Resources – My Resources on the left.
3. Check the IP resources you want to be covered by the ROA.
4. Click Resources – RPKI Dashboard.
5. To agree with the Terms and Conditions, click the I accept.



The screenshot shows the 'ROA quality' page in the RIPE NCC RPKI Dashboard. The page title is 'ROA quality' with a subtitle 'Last update: 2018-03-08 10:00 (UTC)'. Below the title is a search bar labeled 'Filter results by AS number' with 'AS number' entered. There are navigation tabs for 'RPKI', 'APRIS', 'ARIN', 'LACNIC', and 'RIPE NCC'. A green button 'Refresh data' and a red button 'Show problem ROAs' are visible. The main content is a table with columns: Prefix, Maximum length, Authorized AS, and Links. The table lists four prefixes: 41.73.32.0/19, 41.240.160.0/19, 196.37.0.0/16, and 2001:641::/32, all authorized by AS 37188 (DE).

Prefix	Maximum length	Authorized AS	Links
41.73.32.0/19	19	37188 	🔗 🔗
41.240.160.0/19	19	37188 	🔗 🔗
196.37.0.0/16	16	3741 	🔗 🔗
2001:641::/32	32	37188 	🔗 🔗



Challenges and Opportunities

Challenges & Opportunities



- Support Internet development through the service region
- IPv6 uptake
- RPKI uptake
- Training needs (IPv6, Ripe tools)
- Country reports
- Fellowships, RIPE, RACI
- National IGFs



Discussion



Questions

