



RIPE NCC
RIPE NETWORK COORDINATION CENTER

Introduction to MENOG

What Will We Talk About?



- The RIPE community and the RIPE NCC
- RIPE Policy Development Process
- MENOG meetings
- MENOG 25 programme
- Logistics
- Social events

About Me



- Community Development Specialist
- At the RIPE NCC for 12 years
- Before
 - Organised the RIPE, ENOG and SEE meetings
 - RACI (the RIPE Academic Cooperation Initiative)
- Now part of the Community Development team
 - SEE, MENOG, CAPIF, RIPE NCC Days
 - Community events, NOGs
 - Internet governance
- Bulgarian, lives in Spain





RIPE and the RIPE NCC



- A community
- Formed in 1989
- No legal entity or formal membership
- Open, inclusive, bottom-up, transparent
- Sharing information and best practices
- Policy development

- Secretariat
- Formed in 1992
- Non-profit, membership organisation
- Neutral and independent
- Over 190 staff in offices in Amsterdam and Dubai
- Provides services
- Implements policies

What is RIPE?



Réseaux IP Européens

- French for "European IP Networks"
- Public archives
- Work is structured around:
 - Working Groups (WGs)
 - Task Forces (TFs)



Join the mailing list!

ripe.net/mailman/listinfo/ripe-list

Working Groups



- Address Policy
- Connect
- Cooperation
- Database
- DNS
- IPv6
- Measurements, Analysis and Tools (MAT)
- Open Source
- The Internet of Things (IoT)
- RIPE NCC Services
- Routing
- Security

All Working Group and Task Force mailing lists:

ripe.net/participate/mail/ripe-mailing-lists

RIPE Chair Team



- The role of the RIPE Chair Team is to facilitate the collaboration and coordination of the RIPE community
- There is a RIPE Chair and RIPE Vice Chair



Mirjam Kühne
RIPE Chair



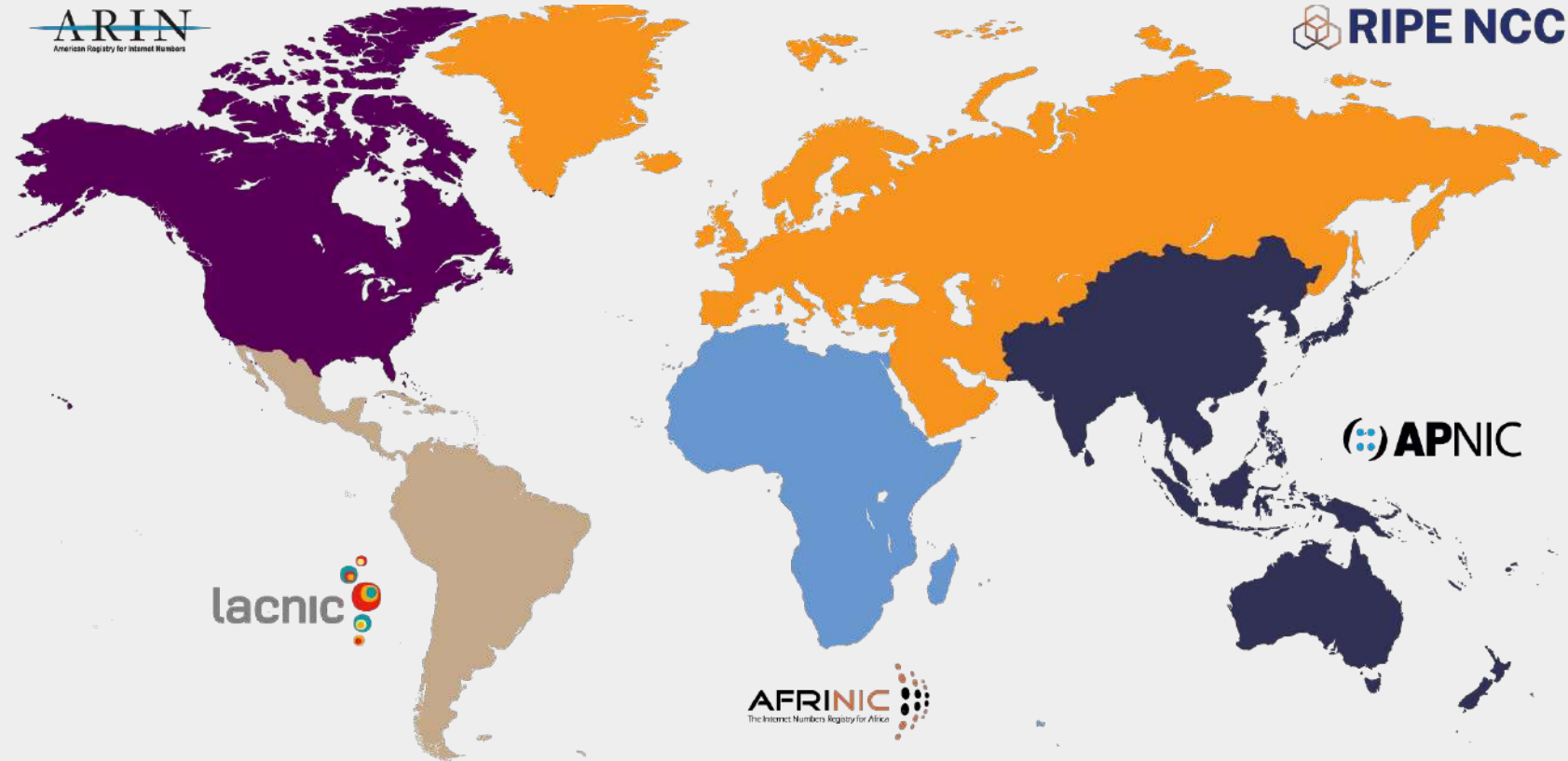
Anna Wilson
RIPE Vice Chair

The RIPE NCC



- One of five Regional Internet Registries in the world:
 - Allocates and registers blocks of Internet number resources to ISPs and other organisations
- Provides a number of technical services and tools:
 - K-root, RIPE Atlas, RIPEstat, RIS
- Involved in public policy discussions and Internet governance

Where are the RIRs?



The RIPE NCC Executive Board



From left to right:

- Ondřej Filip (Chair)
- Randy Bush
- Maria Häll
- Piotr Strzyżewski (Secretary)
- Harald. A Summa
- Sander Steffann
- Raymond Jetten (Treasurer)



The RIPE Policy Development Process

The RIPE Policies



- Developed by, and for, the RIPE community
- Specify how Internet number resources (IPv4, IPv6 addresses, AS Numbers) are distributed, managed, registered and transferred
- Apply only to the RIPE NCC service region

The RIPE Policy Development Process



- Proposals can be discussed on
 - Mailing lists / Forum / Social Media / Meetings
- Decisions based on
 - RIPE WG Mailing list discussions
- 'Rough Consensus'
 - Properly address all concerns and objections
 - Work out differences
 - **No** voting or counting
 - ripe.net/participate/policies

Participate in the RIPE PDP



- Sign up for the Policy Development Process Announcements mailing list:
 - ripe.net/policy-announce
- Join discussions about policy proposals
- Stay up-to-date with new policies:
 - ripe.net/publications/docs/ripe-policies
- Propose a new policy



Who Does What?



- The RIPE community:
 - Creates and discusses proposals
 - Seeks consensus
- RIPE Working Group (WG) chairs:
 - Accept proposals
 - Chair the discussions
 - Decide if consensus has been reached
- The RIPE NCC:
 - Acts as the secretariat to support the process
 - Publishes policy documents and implements them



MENOG Meetings

What is MENOG?



Middle East Network Operators Group

- Key regional platform to promote Internet operations and development in the Middle East
- Free and open to:
 - ISPs, network operators, IXPs, academics, regulators and other interested parties
- Platform to:
 - Exchange technical knowledge
 - Share best practices
 - Negotiate interconnection agreements

What is MENOG?



Key Topics

- Network operations and peering
- Internet security and resilience
- IPv6 deployment and transition
- Cloud and data center infrastructure
- DNS, routing and Internet measurements
- Internet governance and community collaboration

What is MENOG?



Impact

- Encourages growth of local Internet communities
- Promotes cost-effective local Internet exchanges
- Strengthens Internet development and connectivity in the Middle East
- Identify areas for regional cooperation
- Contact the team: menog@ripe.net

Past Meetings



Event	Location	Year
MENOG 1	Manama, Bahrain	Apr 2007
MENOG 2	Doha, Qatar	Nov 2007
MENOG 3	Salmiya, Kuwait	Apr 2008
...		
MENOG 21	Virtual	Oct 2021
MENOG 22	Manama, Bahrain	Dec 2022
MENOG 23	Riyadh, Saudi Arabia	Oct 2023
MENOG 24	Muscat, Oman	Dec 2024

Regional Meetings



ripe.net/see



ripe.net/capif



menog.org



- At regional meetings 30-50% of the attendees are newcomers
- We want to hear from you:
 - Come to the mic
 - Talk to us during the coffee breaks
- Why participate?
 - Engage with experts in network operations, Internet measurements, research and more
 - Build your professional network
 - Be part of a community that helped build the Internet
 - Contribute to discussions and help others learn from your experience
 - Help shape the Internet



MENOG Programme



- Khalid Samara
- Anwar AbuAfifa
- Fahad Ahmed
- Halil Kama
- Hanna Kreitem
- Marco Brandstaetter
- Massimiliano Stucchi
- Mehmet Tik
- Osama Al-Dosary
- Sara Alamin Mohamed Hassan
- Taha Hussain Marathi
- Waleed S. Aloriny

Before We Start



Monday, 24 November

- IPv6 Fundamentals Training Course | 9:00-18:00
- Securing DNS Infrastructure and Operations with KINDNS and Credential Management | 9:00-13:30
- Deploying Domain Names and Email Addresses in Local Languages | 14:30-15:30

Tuesday, 25 November

- BGP Routing Security Training Course | 9:00-18:00
- BGP in 100 Minutes and Peering 101 Workshop | 9:00-13:30
- Introduction to Quantum-Safe Security | 14:00-18:00

- There are still available slots, but might run out soon!
- Separate registration is required: menog.org/meetings/menog-25/workshops

Day 0: Peering



- Current interconnection landscape in the Middle East region
- Why and where to peer? What is the value proposition of peering?
- How to set up secure peering sessions
- Driving business growth through Internet governance and regulation
- Tooling for peering monitoring and optimisation
- What is missing in the region?
- Ask-Me-Anything or Technical Tutorial
- Separate registration is required:
menog.org/meetings/menog-25/day-zero-activities

Day 1: Thursday, 27 November



- Meeting Kick Off, Opening Speech, Host Welcome
- Mapping Internet Resilience: Insights from RIPE Atlas on Cable Breakages and Outages
- Panel: Mitigating the Risk of Sea Cable Breaks
- RIPE NCC Updates
- WHEREIS: IP Address Registration Geo-Consistency
- IPv4 and the Evolving Transfer Landscape
- PKI Signed Checklist – What? How? Why?
- Dynamic DDoS Trends in the Middle East
- A Comprehensive Analysis of the IRR landscape
- Channelmania! – Futureproof your DWDM network topology
- SONiC: Disaggregated, Open, Multi-Vendor Network Operating System
- META VAMOS: Improving QoE for Real Time Calling

Day 2: Friday, 28 November



- Modernise your IP Address Strategy for 2025 and Beyond
- Why Move to EVPN and SRv6?
- SRv6 uSID: Deterministic AI Backend Networking and Unified DC Frontend Design
- Review of IXPs in the Middle East
- From Beirut-IX to Leb-IX
- ChatBots to AgentOps: From Conversational Tools to Autonomous NOC Agents
- Lets Measure IPv6
- Accelerating IPv6 Adoption: A New Paradigm with AI
- Expanding Internet Routing Visibility with BMP
- Closing Remarks

Languages and Archives



- Sessions are recorded and archived
- Live streaming not available
- You can find the presentation archives at:
<https://www.ripe.net/participate/forms/apply/menog-25-presentations/view>
- The session recordings will be available soon after the event on the MENOG YouTube channel:
<https://www.youtube.com/@MENOG-Meetings/playlists>

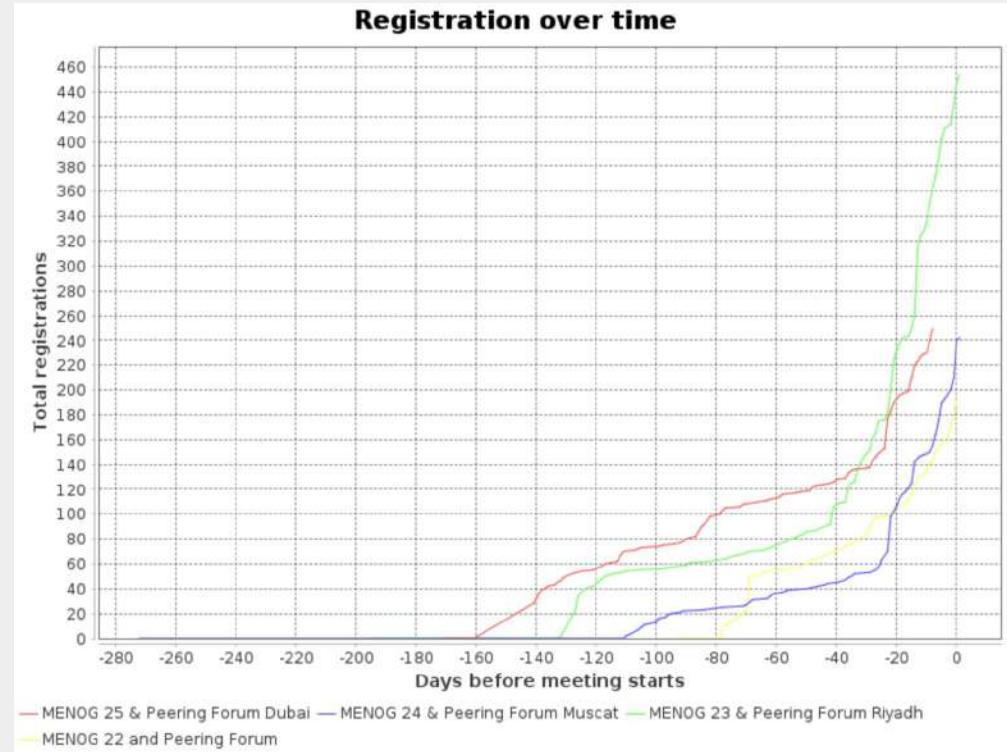


Logistics

Registration Stats



- 249 registrations
 - 125 newcomers
 - 24 staff
 - 51 countries
- Check the attendee list:
menog.org/attendee-list



RIPE NCC staff at MENOG 25



Hans Petter Holen
CEO and
Managing Director



Simon Jan Haijink
Chief
Financial Officer



Hisham Ibrahim
Chief Community
Officer



Hafsa Boueddine
Events



Sandra Gijzen
Events



Noelle Starliper
Events



Kajal Ince
Events



Olivia Mijnaals-Ruimwijk
Events



Timour Bakeev
Tech Team



Anastasiya Pak
Communications



Karla Liddle-White
Communications



Jura Zakarija
Web services



Alastair Strachan
Community
Development



Jelena Cosic
Community
Development



Michela Galante
Community
Development



Laura Lorenzo de Gracia
Community
Development



Dmitriy Melnik
Learning &
Development



Jad El Cham
Learning &
Development



Emine Akay
Registry Services



Ola Elkamhawry
Registry Services



Jeremy Walder
Member Services



Smahena Amakran
Registry Monitoring



Rowaida Sheta
Member Services



Anand Buddhdev
Software
Engineering

Country and Venue



- Currency: dirham, AED
- Electricity socket type G
- Dialing country code: +971
- Anantara Downtown, Dubai
- P.O. Box 71847, Business Bay, Dubai, UAE
- Phone: +971 4 444 1444
- Free parking for hotel guests
- Off-site options such as nearby parking lots or private garages



Getting to the Venue



- Uber, Bolt, Careem, Hala, Dubai Taxi, Arabia Taxi
- From airport:
 - 25 min drive when no traffic
 - ~19km = AED 75-95 via apps
- 5–7 min walk from Business Bay Metro (Red Line)

About Dubai



- UTC+4 time zone
- Debit card payments are common - ask if places accept credit cards and cash
- Mostly safe, the usual big city, common sense safety rules apply
- Emergency numbers
 -  Police: 999
 -  Ambulance/Medical emergencies: 998
 -  Fire service: 997

Sun 23rd	Mon 24th	Tue 25th	Wed 26th	Thu 27th	Fri 28th	Sat 29th
 32° 16°	 31° 15°	 30° 15°	 29° 15°	 29° 16°	 29° 16°	 29° 16°



Social Events

MENOG 25 Socials



Thursday Dinner, 27 November | 19:30 - 23:00

- Venue: Belcanto Terrace, Dubai Opera
- Transport: Just 5 minutes by car
- Complimentary valet parking is available for those driving
- Dress Code: Smart casual



Closing Reception, 28 November | 15:30 - 18:00

- Venue: Terrace Deck at Anantara Downtown

Certified Professionals Exams at MENOG



- Register in advance: menog.org/meetings/menog-25/ripe-ncc-certified-professionals/
- Prepare: <https://academy.ripe.net/>
- Slots available on a first-come, first-serve basis
- ~ 60 minutes, arrive ~15 minutes prior; bring a photo ID



LIR Fundamentals

This exam certifies the ability to manage an LIR's Internet number resources as an LIR administrator.



IPv6 Fundamentals - Analyst

An IPv6 Fundamentals – Analyst is proficient in calculating IPv6 subnets according to current best practices and creating IPv6 addressing plans.



RIPE Database Associate

A RIPE Database Associate is proficient in searching for and interpreting data in the RIPE Database. Candidates who hold this certification have demonstrated the ability to update and register data in the RIPE Database.



BGP Security Associate

A BGP Security Associate can choose the appropriate security measures to protect networks against common threats. They contribute to global routing security by making Internet routing more secure and reliable.



IPv6 Security Expert

An IPv6 Security Expert is capable of designing a high-level strategy to protect an IPv6 network against common threats. A holder of this badge has demonstrated the ability to identify and analyse common IPv6 security threats and their impact, and create a plan to counter them.

To Do: Set Your Personal Goals



- Get to know the RIPE Chair, the RIPE NCC Executive Board
- Read about the RIPE NCC Policy Development Process (PDP)
- Make a list of your goals for the event
- Which sessions interest you? Check the agenda.
- Who would you like to connect with? Check the attendee list.
- Plan your trip
- Register in advance if you want to take a RIPE NCC Certified Professionals exam



Newcomers' Survey

Please help us improve the meeting.
Fill this in by **20 November**



THANK YOU FOR JOINING US



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