



RIPE NCC

RIPE NETWORK COORDINATION CENTRE

RIPE NCC Tools Update

Robert Kisteleki
RIPE NCC

Robert Kisteleki | RIPE 87 MAT WG | 28 November 2023

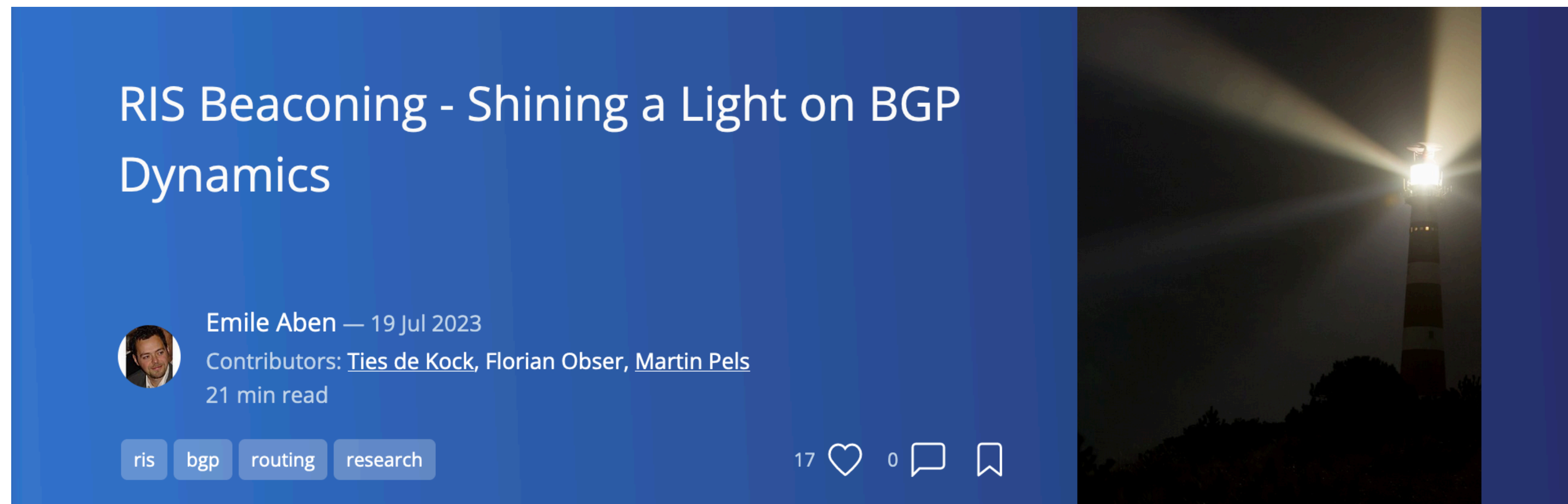


RIPE RIS

RIS - Routing Beacons



- In Q1 2024 we will change beaconing from our route collectors
- We published a [RIPE Labs article](#) with more details this summer
- We will share with users (ris-users@) and the MAT-WG next week



RIS Peering Strategy



- Two years of selective peering strategy: quality vs quantity
- We set a new goal every quarter. So far:
 - Tier-1 networks
 - Focus on countries not well covered
 - In SEE, Central Europe, Central Asia and the Middle East
- Results are on RIPE Labs
- We temporarily removed the Peering Request Form
- Any objections? Talk here to Jelena and Michela! Or send an email to ris@ripe.net



RIPEstat

RIPEstat



- RIPEstat UI2013 (widget-based)
 - Complete overhaul of RIPEstat Widget API libraries
 - E.g.: jQuery 1.11 (Jan 2014) to jQuery 3.7.1 (Aug 2023)
 - Security, stability and performance improvements
 - Introduction of versioning
 - v1.1: New software stack
 - Used in RIPEstat UI2013
 - v1.0: Old software stack
 - Used for external users of RIPEstat widgets
 - No need to switch immediately to v1.1 but recommended (security vulnerabilities)

RIPEstat

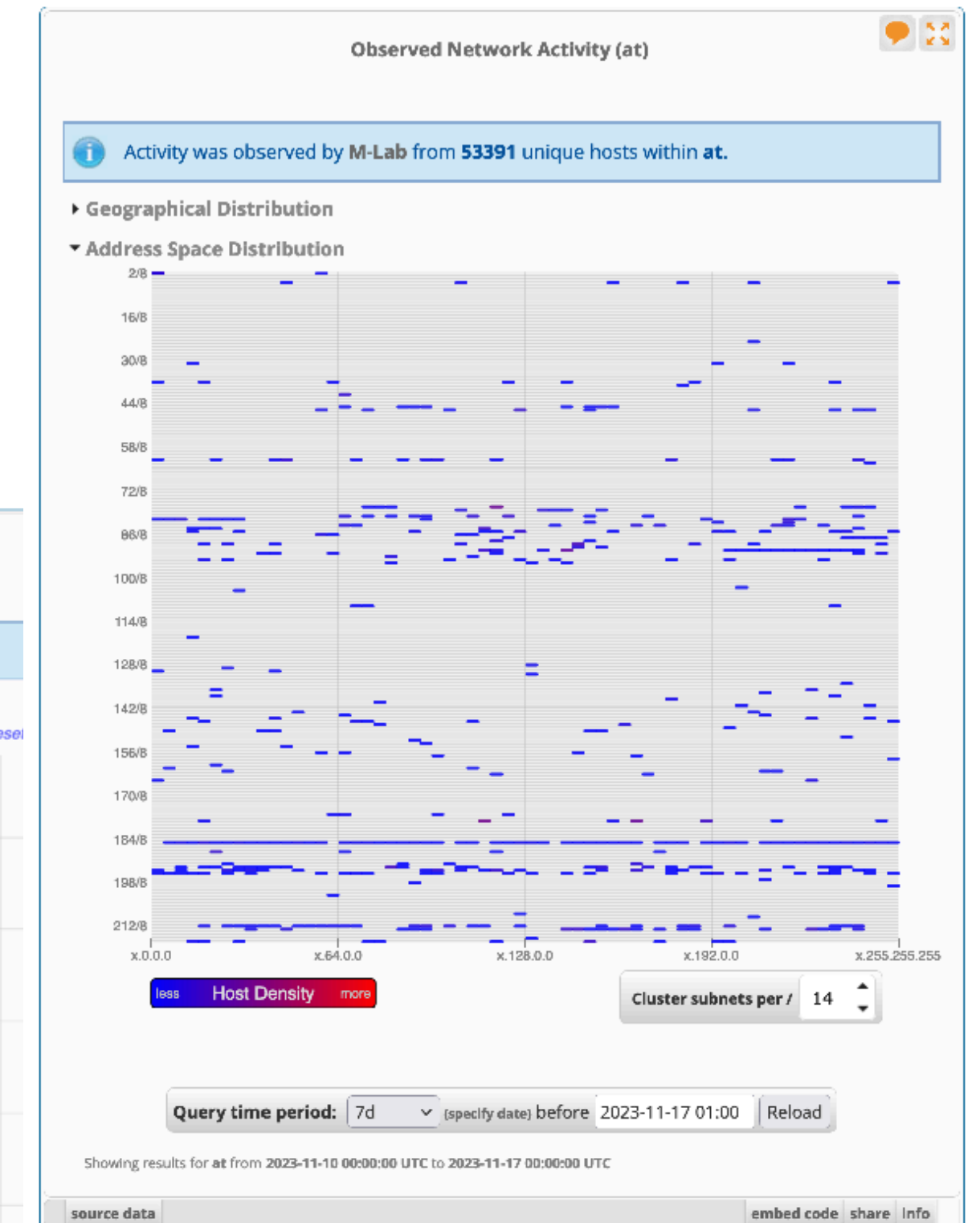
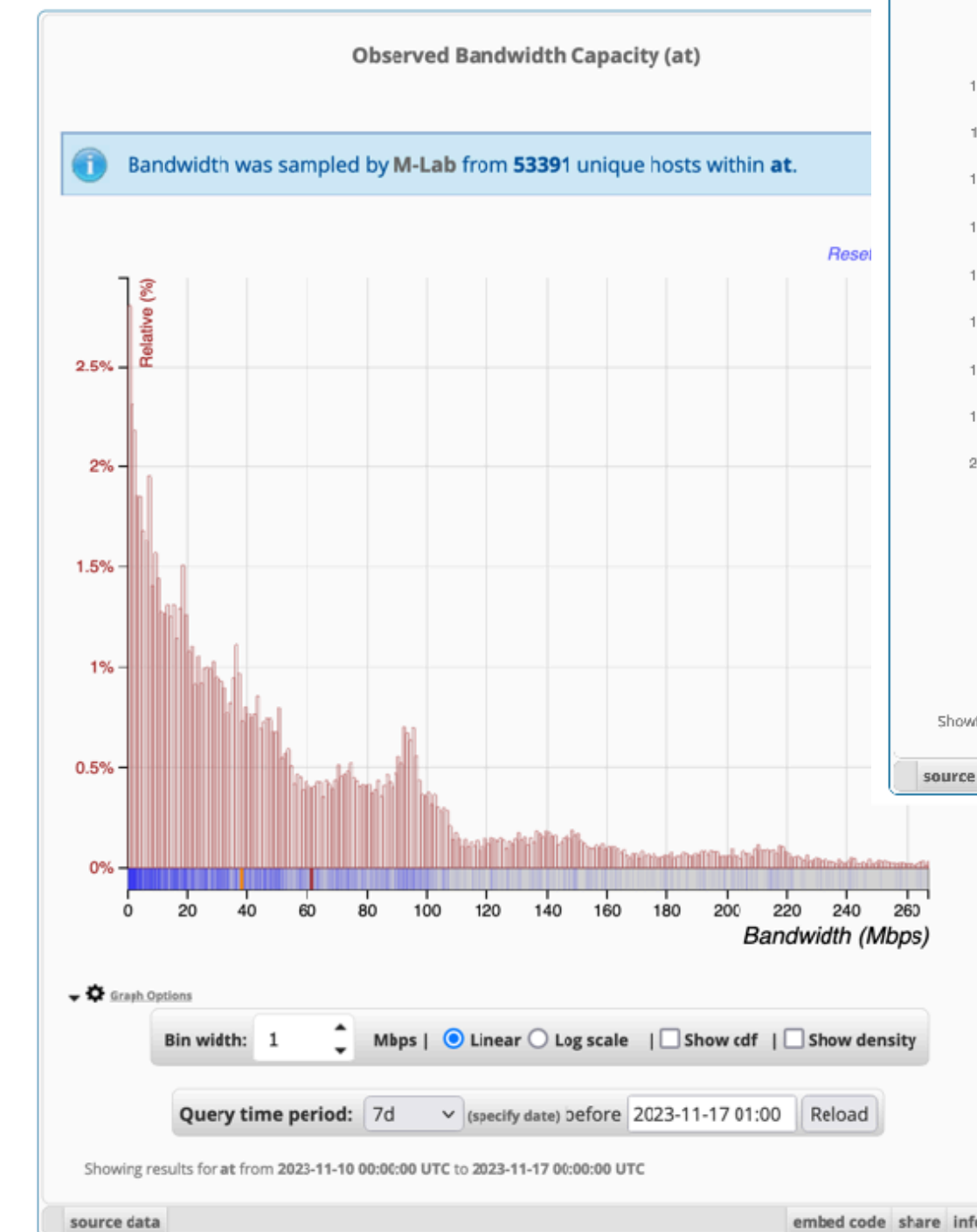


- RIPEstat UI2020 (web application)
 - Current implementation not as popular/reliable as hoped based on:
 - Membership Survey 2023
 - Internal survey
 - Usage data
 - Bug reports
 - We have planned a thorough review in Q1 2024 as a consequence

RIPEstat



- Widgets showing M-Lab data are back
 - Observed Bandwidth Capacity widget / data call
 - Observed Network Activity widget / data call
 - Supporting prefixes and country resources



RIPEstat



- Service and Data Quality
 - Ongoing efforts since RIPE 85
 - We managed to find and fix many bugs in the middleware
 - Current focus:
 - Preventing code regression
 - Assessing data quality
 - Data recency: When is data delayed and what are realistic expectations regarding delays?



RIPE Atlas

RIPE Atlas



- Started: renewing our big data backend
 - In general moving to more cost-effective solutions
 - Moving our historical data to a different subsystem (with minimal effects on users)
 - Revitalising the infrastructure serving our recent / frequently accessed data
- Ongoing: renewing our infrastructure components
 - Working on containerising components of our distributed infrastructure
- For both: we're evaluating cloud-based solutions where applicable

RIPE Atlas



- Ongoing: User Interface (website/app) renewal
 - Done: documentation site, coverage & statistics
 - Released, finalising: measurement creation, probe and measurement listing
 - Up next: measurement pages, “my dashboard”, probe pages, promotional pages
 - Preview of what’s coming: [RIPE Atlas beta-ui](#)
- Ongoing: Probe firmware packaging
 - Reworking the probe package to better match popular Linux distributions
 - Main goal is to simplify development, installation and upgrades (maintenance)
 - Looking forward working with package maintainers



Proposals

RIPE Atlas - The Role of Aggregators



- Some organisations integrate RIPE Atlas services, provide this to their clients
- These users can provide additional value to the RIPE community and a wider user base as well
- But this also skews our understanding of how many real users are there, who they are and what they are after

RIPE Atlas - The Role of Aggregators



- Our proposal:
 - Recognise this activity and define a role for it (“aggregators”)
 - Create the appropriate framework to define the benefits and accountabilities
 - An account used for this purpose would need to explicitly identified as such
 - Aggregators would need to supply some basic identification of their clients
 - TBD: over a certain limit this necessitates becoming a sponsor of RIPE Atlas
- With this change we expect that:
 - The community can be made aware of this feature and its users
 - The role is clarified and we can consistently apply the conditions this implies
 - RIPE Atlas can keep accurate statistics about the real number of its users, including clients of aggregators, and the amount of activity these cause in the system.

RIS and RIPE Atlas: Data Retention



- RIS and RIPE Atlas have been collecting data for a long time
 - Since 1999 and 2010, respectively
- Historical results are available to all interested users
- There's arguably high value for this data and to its availability
- However, keeping and providing this data has costs
- We're focusing on being cost-conscious, therefore it is worth reviewing how we approach retention of measurement data

RIS and RIPE Atlas: Data Retention



- Our proposal:
 - The RIPE NCC should retain as much data as possible in a financially sustainable way
 - In general data should be available to all users
 - However, the access methods to this data will be tailored to the age of the data and the access patterns access to it
 - The different services can have different tiers, different cutoffs and different access methods for these access tiers
 - Users should be encouraged to make authenticated requests when accessing data
 - Results for non-public RIPE Atlas measurement will be stored and retrievable only for a limited time

A Word From the RIPE NCC Academy



- Work on a new Internet Measurements E-Learning Course
- We'd love your input!
- <https://ripe-ncc.typeform.com/measurements>





Questions



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