RIPE NCC
RIPE NETWORK COORDINATION CENTRE

RPKI Update

Nathalie Trenaman I ENOG 18 I

RPKI Resiliency Project

- Procedural and Operational Compliance
- RFC and Security Compliance
- Certification Practice Statement
- RPKI Route Origin Validation for AS3333
- Redundancy and Availability Repositories
- Deprecating RIPE NCC RPKI Validator
- RPKI Roadmap 2021

Procedural and Operational Compliance

- BSI has performed a gap analysis and identified 49 missing controls (out of a total of 179)
- Overview of control gaps:
  - Processing Integrity: 5 controls missing
  - Confidentiality: 1 control missing
  - Availability: 3 controls missing
  - Security: 40 controls missing
- We are in the process of closing the control gaps
- Full audit to be done in Q1 2022

RFC and Security Compliance

- Radically Open Security performed an assessment between August and September 2020
- There were 35 findings that resulted in 35 actions
- The report and our response are on the website
  - https://www.ripe.net/manage-ips-and-asns/resource-management/rpki/security-and-compliance
- Follow-up pentest scheduled for June 2021
  - Followed by a red team test later this year

Certification Practice Statement

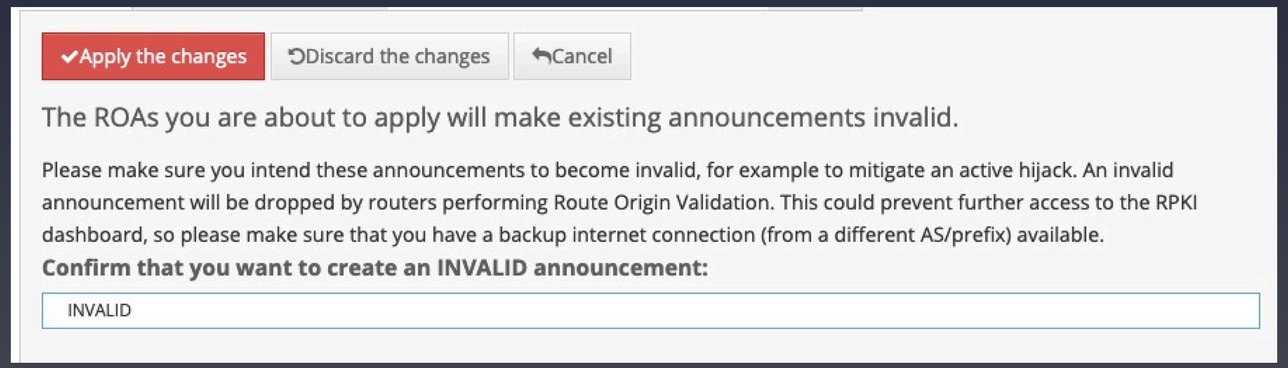
- ripe-751:
  - https://www.ripe.net/publications/docs/ripe-751
- Complete re-write, following RFC7382
- Published in January 2021
- Will be reviewed every two years from now on
  - In cooperation with the Routing Working Group
- Special thanks to APNIC for their review

RPKI Route Origin Validation for AS3333

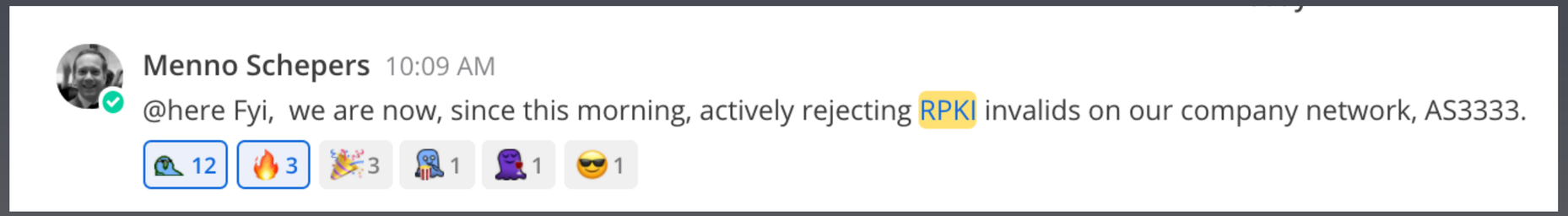
- Thank you for your support on the WG list!
- We checked which routes would be dropped and impacted
- Reached out to 215 organisations associated with these 597 routes
- No back-door to my.ripe.net
- Enabled invalid == reject on 19 April 2021
- Received just a handful of questions from members
  - Mostly asking us how to create ROAs

RPKI Route Origin Validation for AS3333

- We added a warning for LIRs and End Users that are about to lock themselves out of the portal



- Credits:

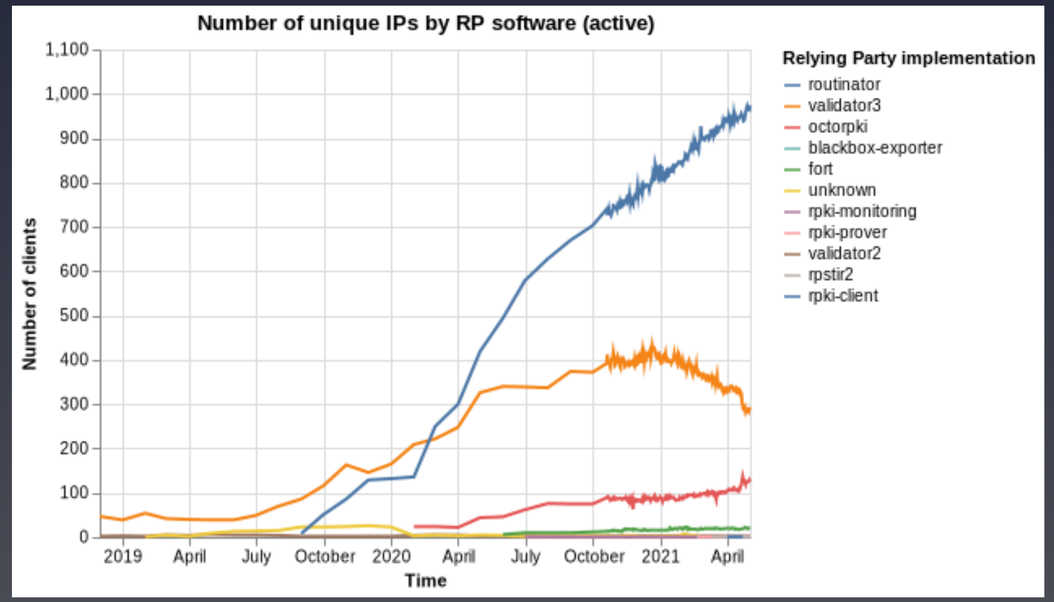


Cloud deployment

- We are working to significantly scale up our existing RPKI repositories infrastructure (RRDP & rsync)
- Deployment to AWS using multi-availability zones and multi-region architecture
- We will also offer a redundant infrastructure in house or through a secondary cloud provider
- Read this RIPE Labs article for more details: https://labs.ripe.net/author/felipe_victolla_silveira/rpki-repositories-and-the-ripe-database-in-the-cloud/

Deprecating RIPE NCC RPKI Validator

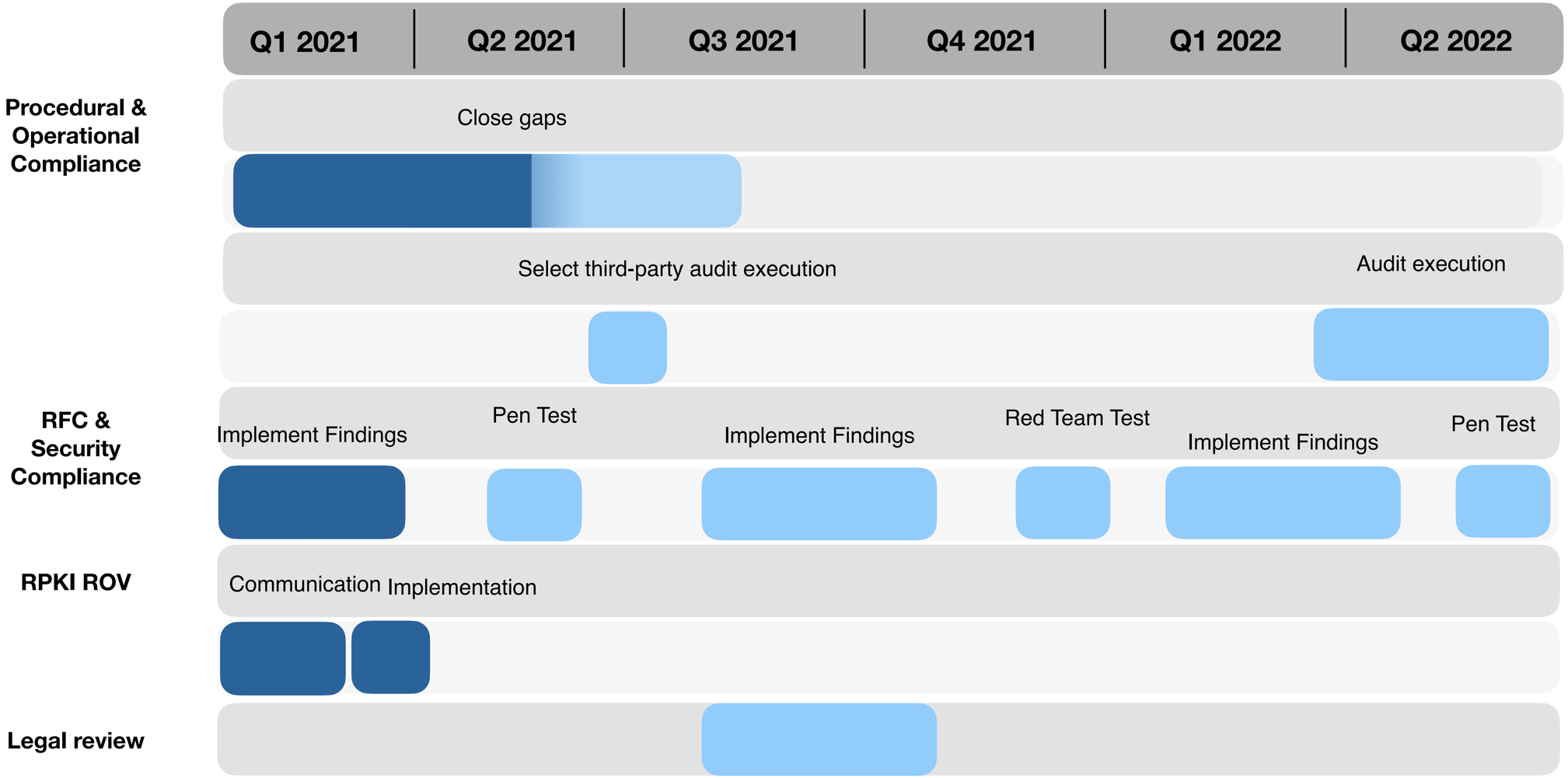
- In less than 2 months we will stop maintenance for the RIPE NCC RPKI Validator
- Number of clients going down, still ~300 clients :(
- Please help us spread the word!



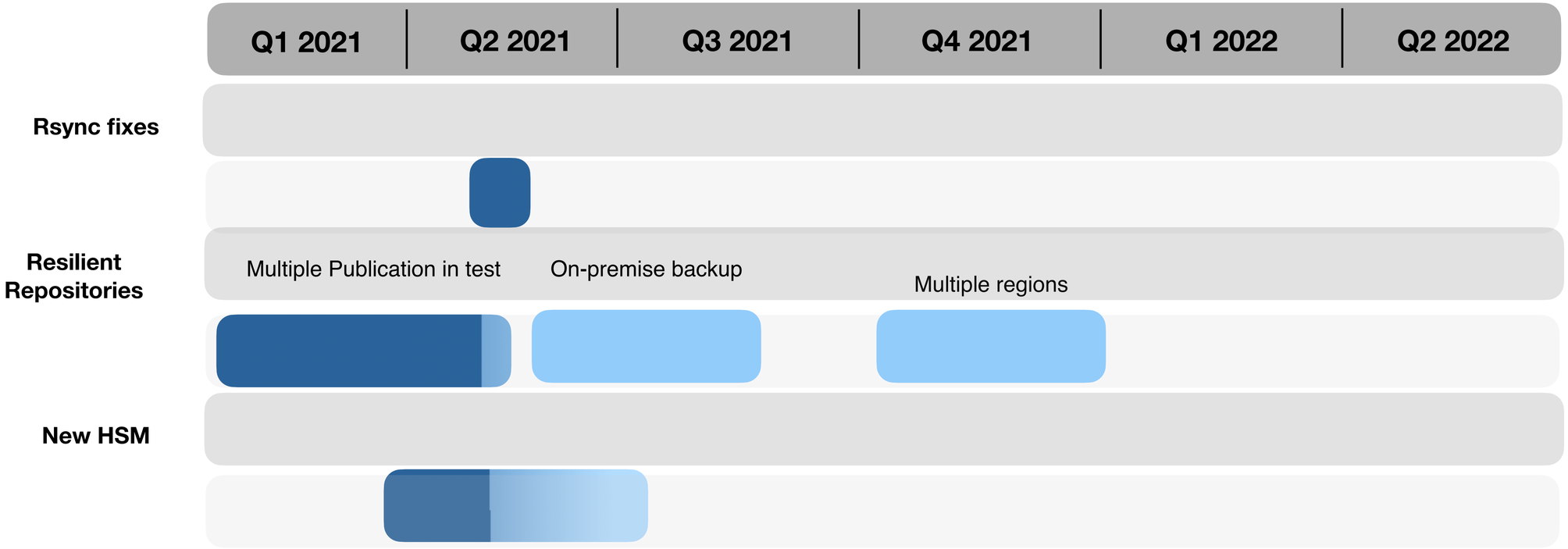
Coming Soon

- RPKI Roadmap on the website
- Status page
- Quarterly RPKI health and progress reports
- Your suggestions?

RPKI Roadmap 2021



Technical Infrastructure



Questions

nathalie@ripe.net