

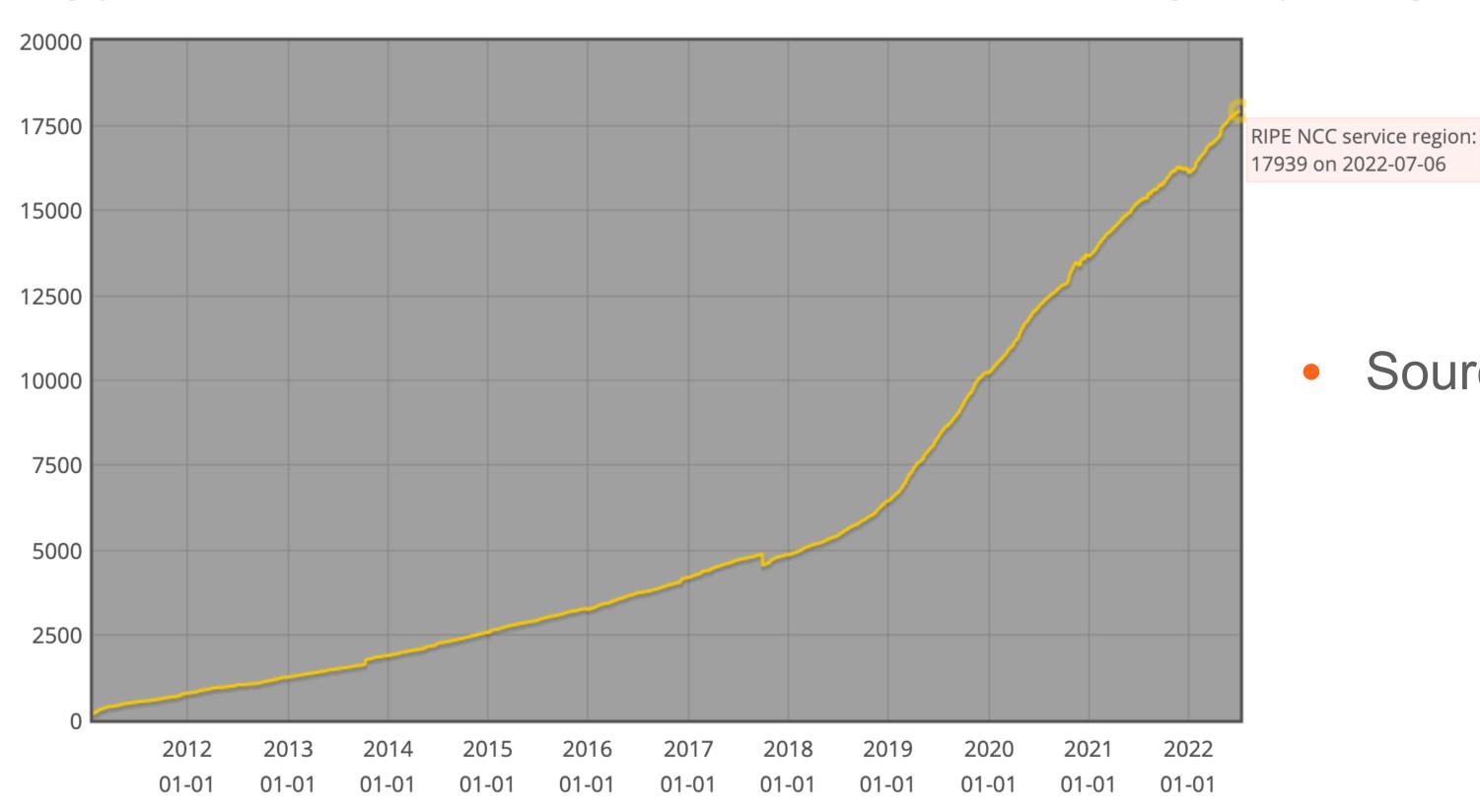
RPKI at RIPE NCC

RPKI Deployment Numbers





This graph shows the total number of resource certificates created under the RIR Trust Anchor. One certificate is generated per LIR, listing all eligible Internet number resources



Source: https://certification-stats.ripe.net/

Fun Facts



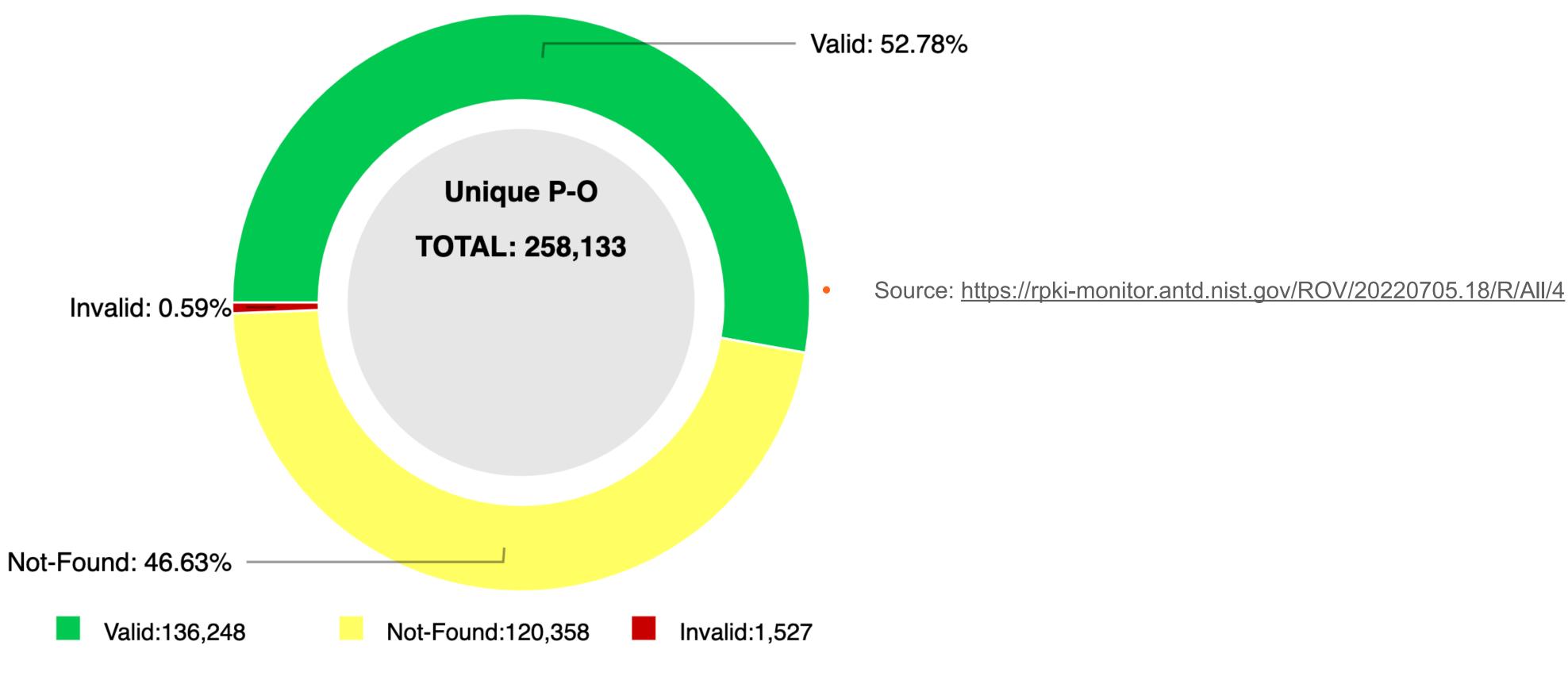
- 75% of our members created a Certification Authority (CA)
- Around 17% of these CA's don't create ROAs in our dashboard!
- 52% of RIPE NCC space is covered with a ROA
- People (still!) don't pay much attention to IPv6

ROA Coverage for IPv4









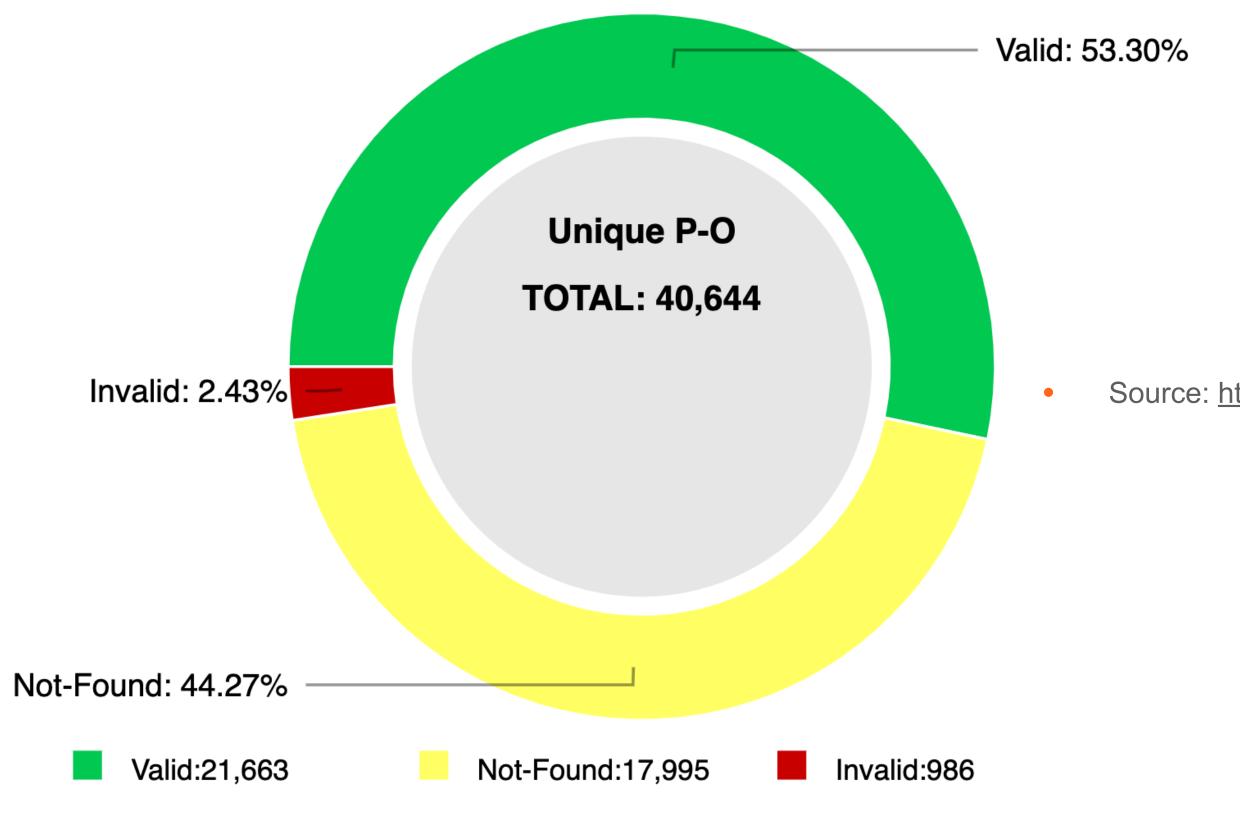
NIST RPKI Monitor: RPKI-ROV Analysis Protocol: IPv4 RIR: RIPE Date: 2022-07-05 18:00

ROA Coverage for IPv6



RPKI-ROV Analysis: RIPE





Source: https://rpki-monitor.antd.nist.gov/ROV/20220705.18/R/AII/6

NIST RPKI Monitor: RPKI-ROV Analysis

Protocol: IPv6

RIR: RIPE

Date: 2022-07-05 18:00

Training is Essential!



- But in 2021, all we had were webinars:(
- We held 15 RPKI and BGP Security webinars
 - but we learned that operators want hands-on training
- So we're building a new lab environment

An Easy User Interface helps (?)



| RPKI Dashboard | | | | 3 CER | RTIFIED RESOURCES | ALERTS ARE SENT TO 5 ADDR |
|--|-----------------------------|------------------|----------------|-------------|--------------------|---------------------------|
| 2 BGP Announcements | | | | 2 ROAs | | |
| | 2 Valid 0 Invalid 2 Unknown | | | 2 OK | O Causing problems | |
| | | | | | | |
| BGP Announcements Route Origin Authorisations (ROAs) History | | | | | | Search |
| t | Create ROAs for selected B | GP Announcements | | | ✓ Valid | ▲ Invalid ② Unknown |
| | Origin AS | Prefix | Current Status | | | |
| | AS2121 | 193.0.24.0/21 | VALID | | | Z |
| | AS2121 | 2001:67c:64::/48 | VALID | | | Z |
| Show 25 V | | | | | | |
| | | | | | | |

Looking for ROA Certification for PI resources?

Revoke hosted CA

Route Origin Validation



- RIPE NCC performs Route Origin Validation for AS3333
 - Since April last year
 - To share our experience and "eat our own dog food"
 - https://labs.ripe.net/author/nathalie_nathalie/rpki-and-as3333-or-how-we-eat-our-own-dog-food/