The first year of





GTER-49 — GTS-35



"Is this BGP route origination authorised by the legitimate holder of the IP space?"

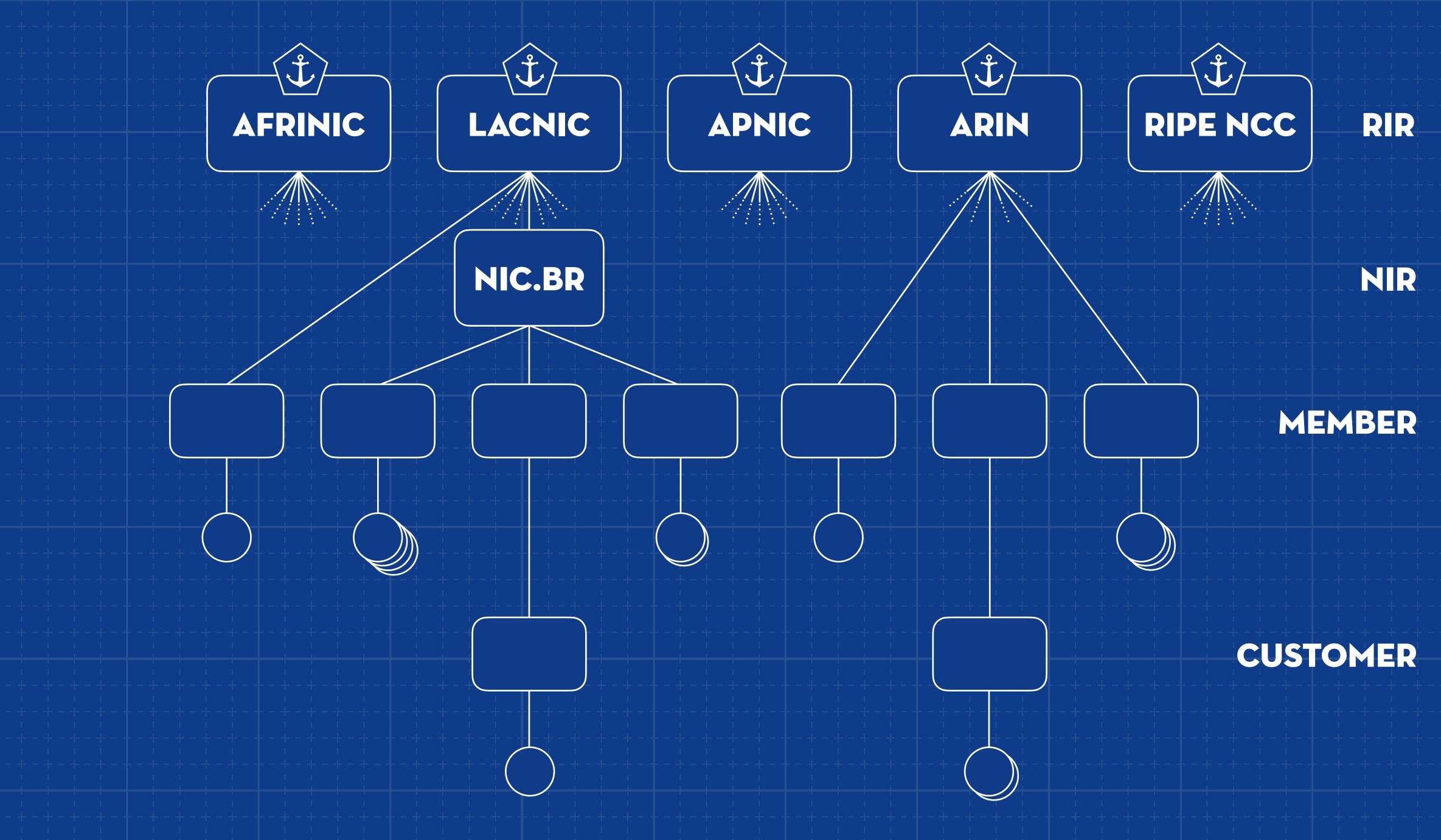


- Run an RPKI Certification Authority (CA) as a child of the RIR/NIR/LIR
- Install and run Krill
- Generate a resource certificate, have it signed by the parent CA
- Publish signed objects yourself, or ask your parent to do it for you

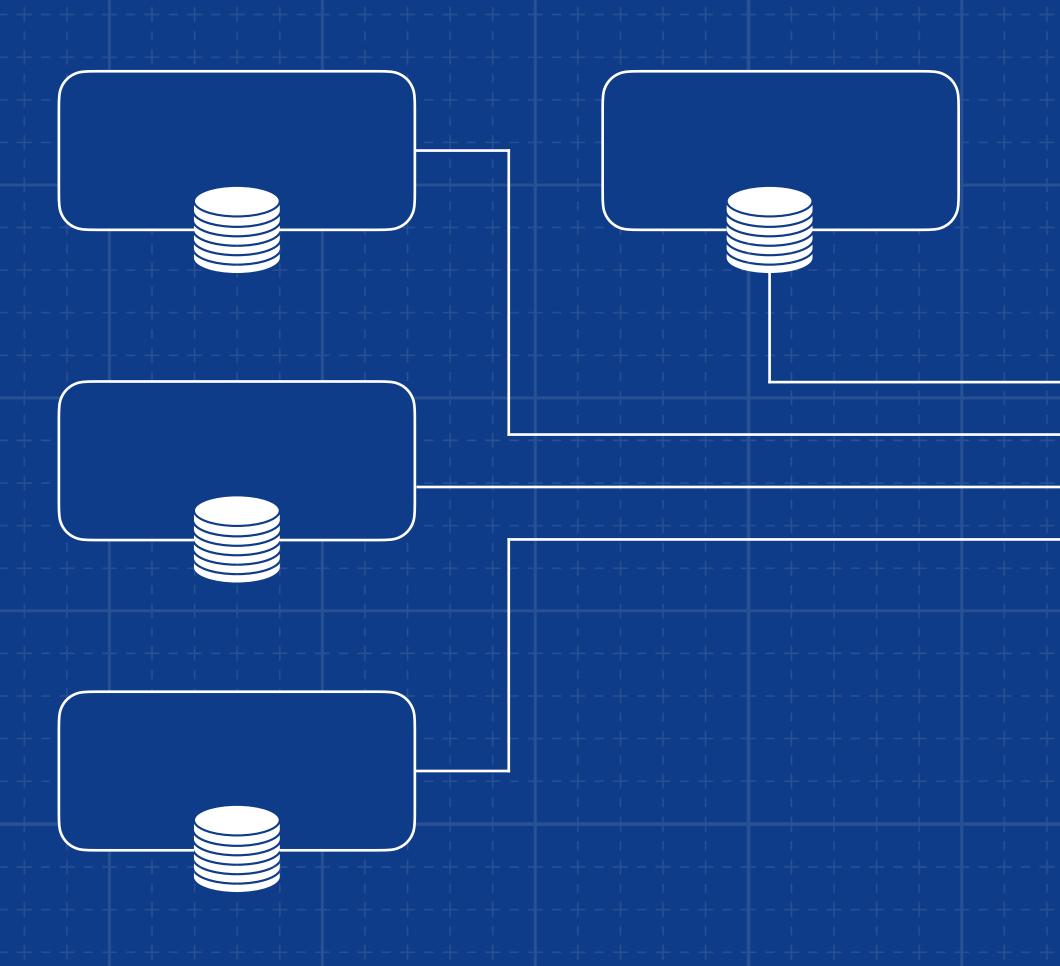
NIC.BR: DELEGATED RPKI

• Anyone can download and use the data for Route Origin Validation (ROV)









RELYING PARTY SOFTWARE

validated cache





CORE FUNCTIONALITY

Seamlessly operate under multiple parent CAs
Act as a parent CA for customers and subdivisions
Manage Route Origin Authorisations (ROAs)
Stand-alone publication server
Allow remote publication



ESSENTIALS

Installation from source, Debian/Ubuntu packages or Docker Command Line Interface, User Interface and a REST-like HTTPS API Prometheus monitoring and alerting Audit log



CLOUD MARKETPLACE

You only pay the cost of the VM

One-click setup

 Integrated updates, backups, logging, monitoring, TLS certificate setup and renewal

Krill is available on the AWS Marketplace and DigitalOcean Marketplace



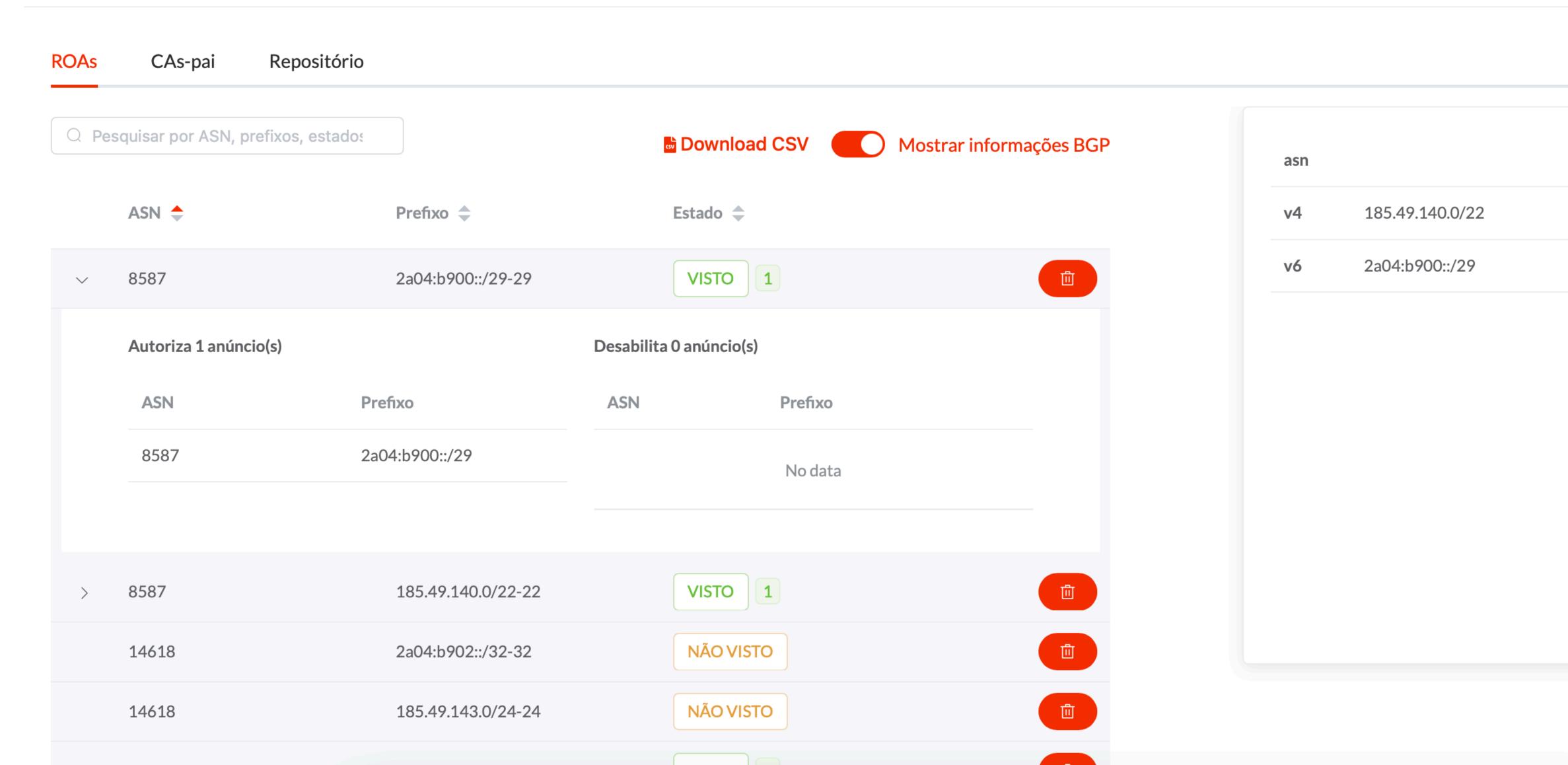
USER INTERFACE

Multi-language support (includes Brazilian Portuguese)
Parent CA and Publication Server configuration
ROA suggestions and alerting based on BGP route collectors
Invalid announcements (incorrect ASN or prefix length), too permissive ROAs, redundant ROAs, etc.





Autoridade Certificadora (CA) **NLnet Labs**



Português







Análise de ROA

Por favor, consulte as seguintes alterações sugeridas para suas ROAs. <u>Saiba mais (texto em inglês)...</u>

	ASN 🗢	Prefixo 🗢
	14618	2a04:b902::/32-32
	14618	185.49.143.0/24-24

Velho		
Velho		
	Cancelar	Confirmar

 \times





- 1.0 Release: stable API
- Multi-user support based on OpenID Connect
- Clustering support
- BGP listener: manage ROAs based on your own router's view
- Hardware Security Module (HSM) support: PKCS#11 and KMIP
- User interface refinements: audit log, bulk editing, etc.

2021 ROADMAP

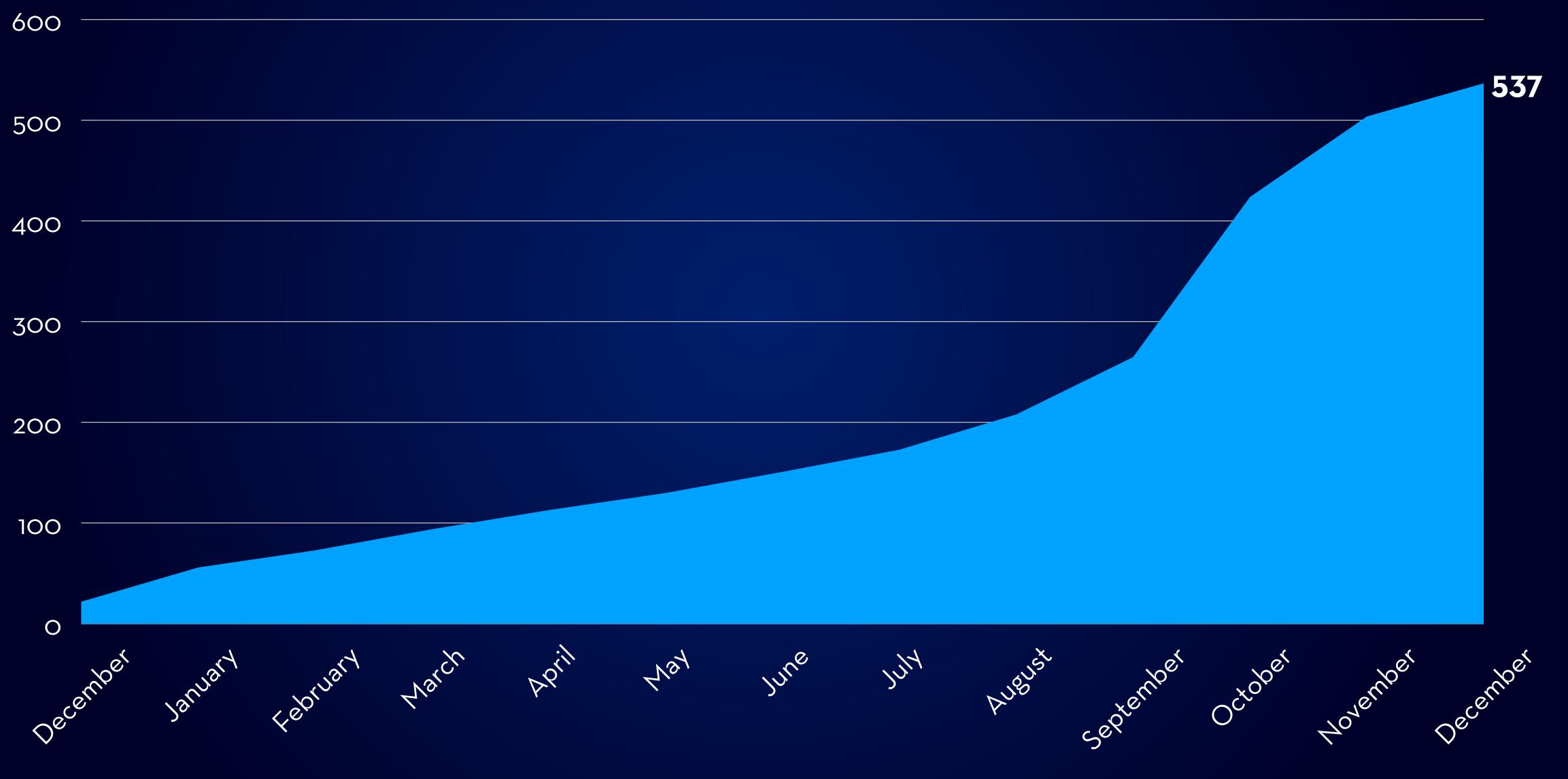




in Brazil



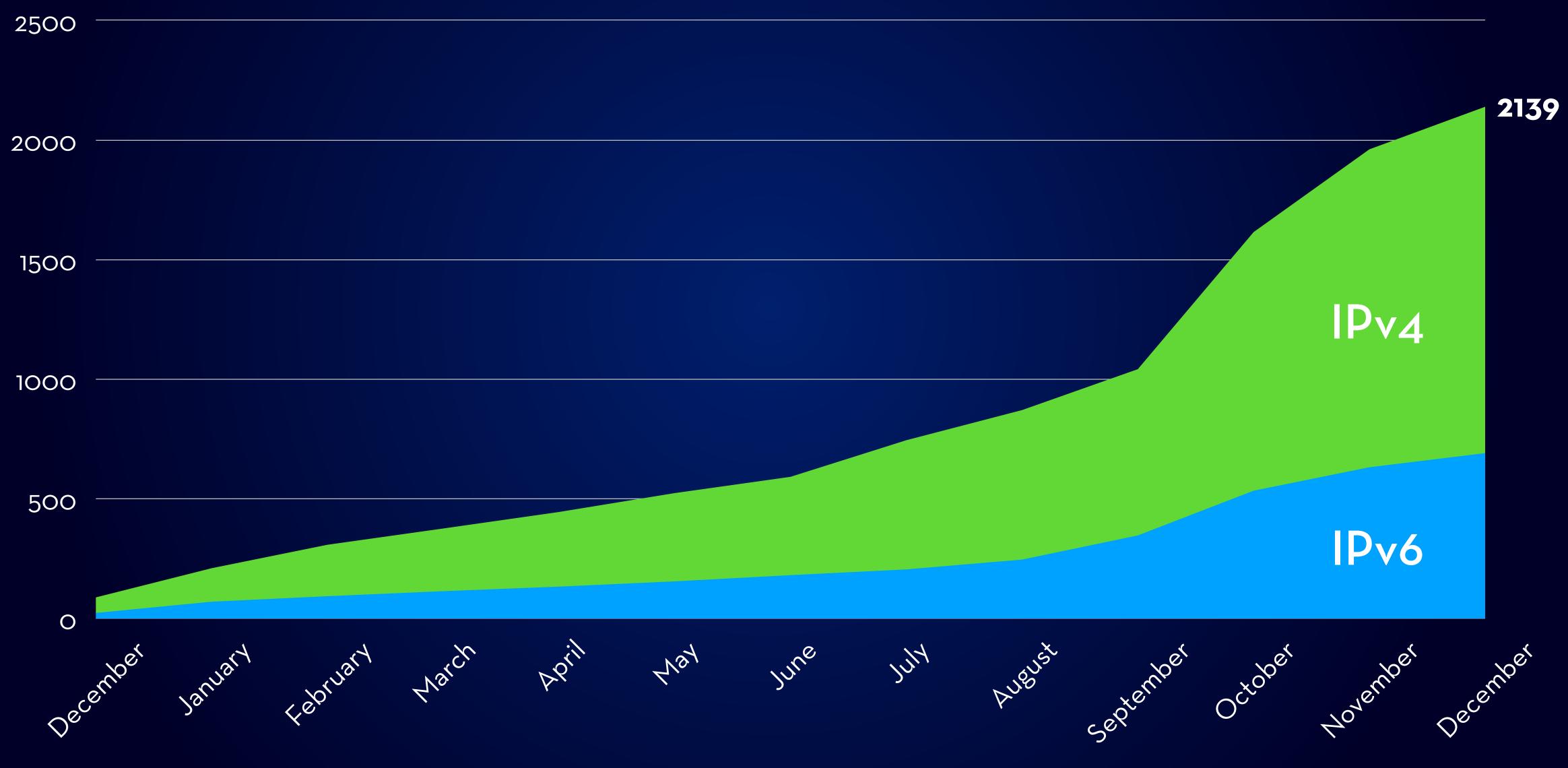
CERTIFICATE AUTHORITIES







VALIDATED ROA PREFIXES









YOU MAKE A DIFFERENCE

Dropping RPKI Invalid routes has gained significant momentum in 2020

Telia Carrier, Cogent, GTT, NTT, Cloudflare, Hurricane Electric, Netflix, Scaleway, Wikimedia Foundation, TATA, PCCW, AT&T and many more...

source: <u>rpki.exposed</u>



- rpki.readthedocs.io Documentation and FAQ
- <u>rpki@lists.nlnetlabs.nl</u> Mailing list with 500+ subscribers
- Cloudflare, Cisco, Arista, Juniper and Nokia



VBRANT ECOSYSTEM

• <u>JDR</u> – A tool to help you explore, inspect and troubleshoot anything RPKI

From Zero to RPKI Hero – Webinar on ROV with RIPE NCC, NLnet Labs,

Makrillrpki & @routinator3000

