

The first year of



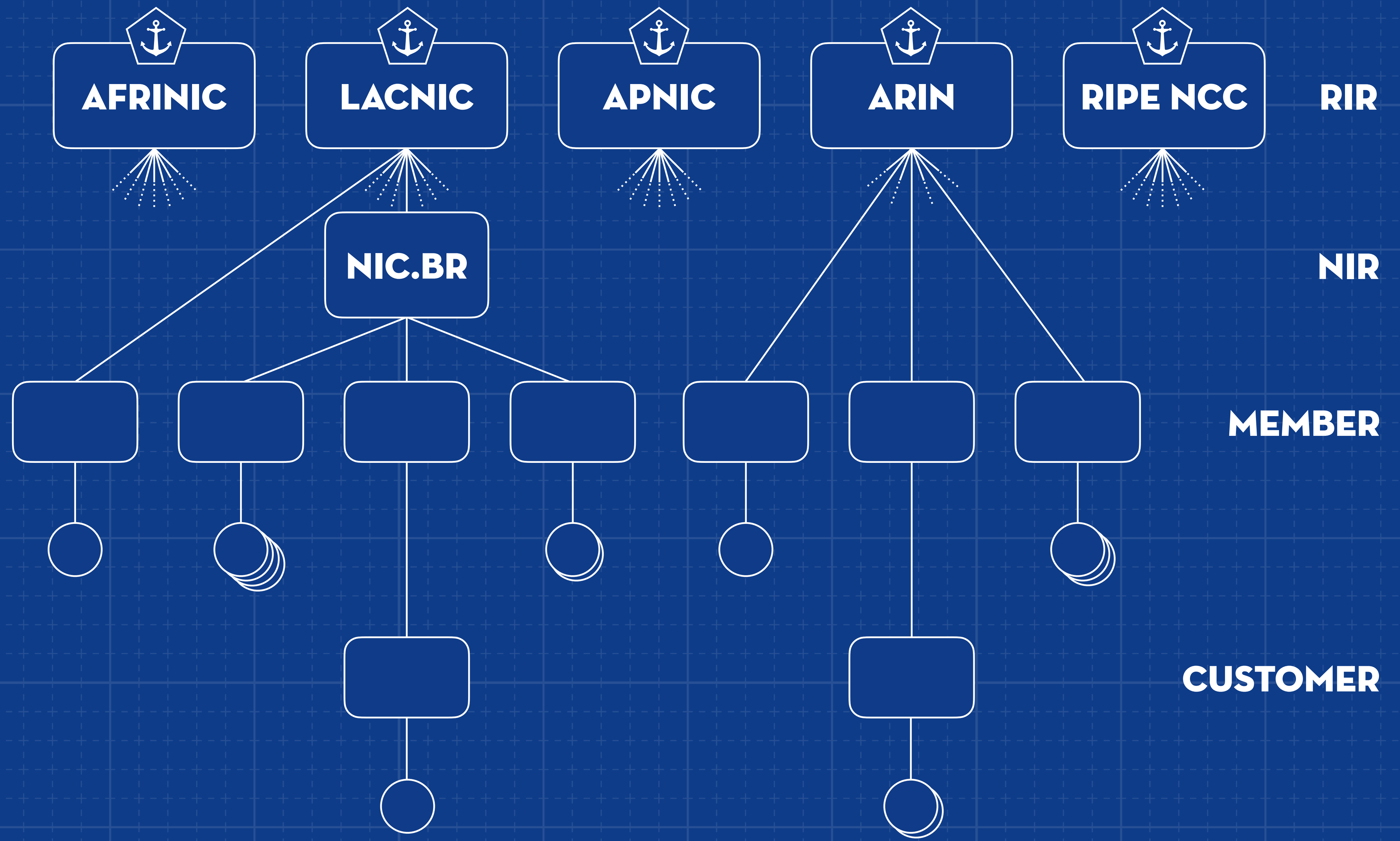
GTER-49 — GTS-35

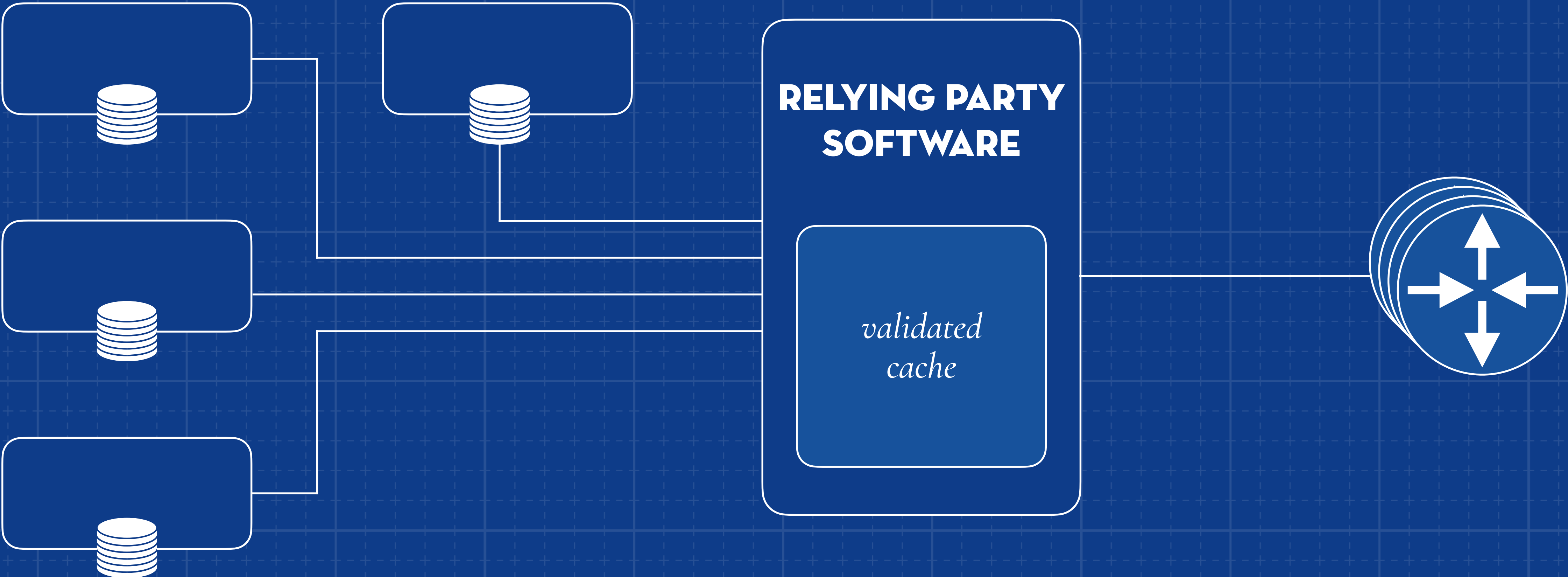
RPKI RECAP

*“Is this BGP route origination authorised
by the legitimate holder of the IP space?”*

NIC.BR: DELEGATED RPKI

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







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

- ✓ Krill is available on the AWS Marketplace and DigitalOcean Marketplace
- ✓ You only pay the cost of the VM
- ✓ One-click setup
- ✓ Integrated updates, backups, logging, monitoring, TLS certificate setup and renewal

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

ROAs
CAs-pai
Repositório

Download CSV

 Mostrar informações BGP

ASN ▲	Prefixo ▲	Estado ▲	
8587	2a04:b900::/29-29	VISTO 1	
Autoriza 1 anúncio(s)		Desabilita 0 anúncio(s)	
ASN	Prefixo	ASN	Prefixo
8587	2a04:b900::/29		No data
8587	185.49.140.0/22-22	VISTO 1	
14618	2a04:b902::/32-32	NÃO VISTO	
14618	185.49.143.0/24-24	NÃO VISTO	

asn

v4 185.49.140.0/22

v6 2a04:b900::/29

Análise de ROA



Por favor, consulte as seguintes alterações sugeridas para suas ROAs. [Saiba mais \(texto em inglês\)...](#)

<input type="checkbox"/>		ASN	Prefixo	
<input type="checkbox"/>		14618	2a04:b902::/32-32	Velho
<input type="checkbox"/>		14618	185.49.143.0/24-24	Velho

Cancelar

Confirmar

2021 ROADMAP

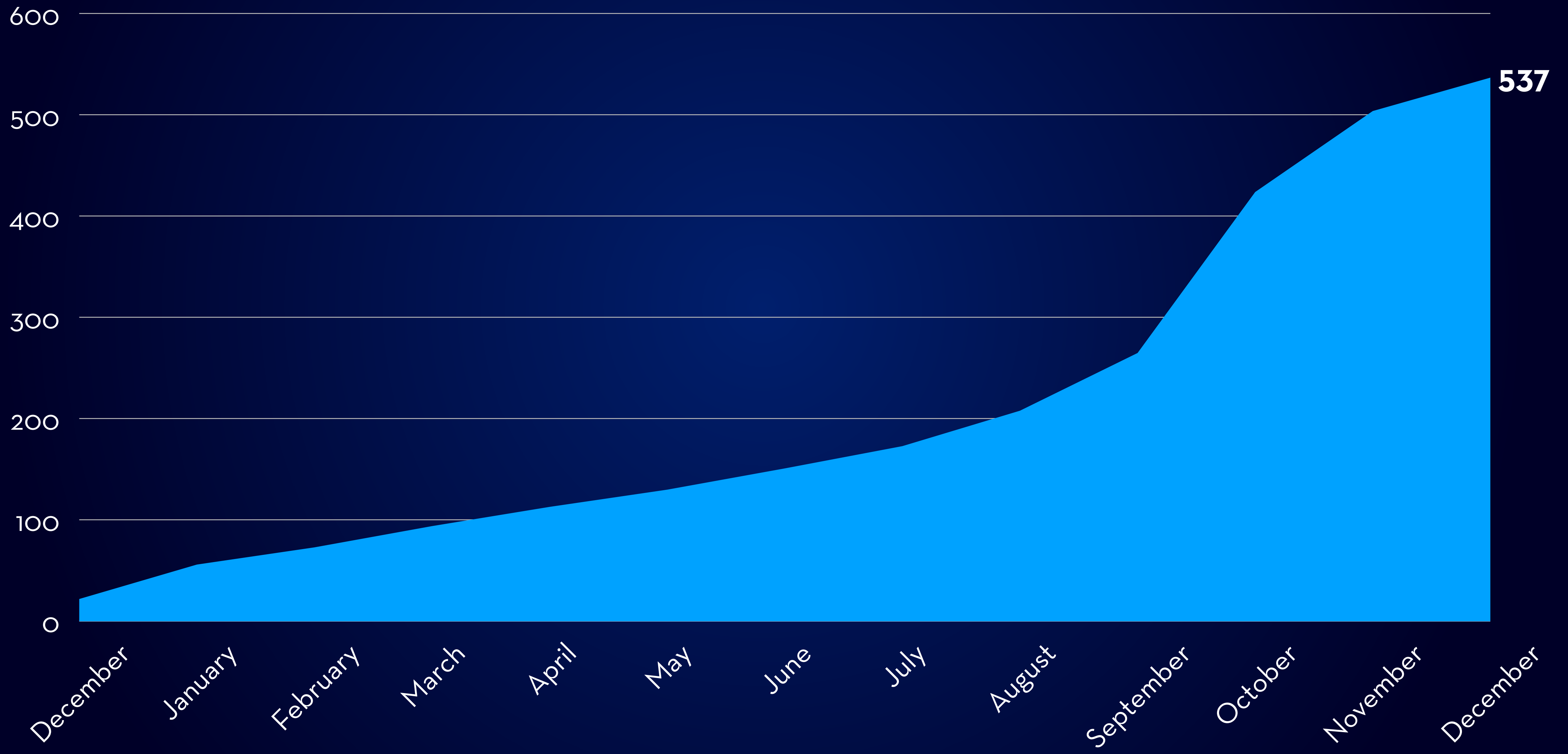
- 1.0 Release: stable API
- Multi-user support based on OpenID Connect
- Clustering support
- BGP listener: manage ROAs based on your own router's view
- Hardware Security Module (HSM) support: PKCS#11 and KMIP
- User interface refinements: audit log, bulk editing, etc.



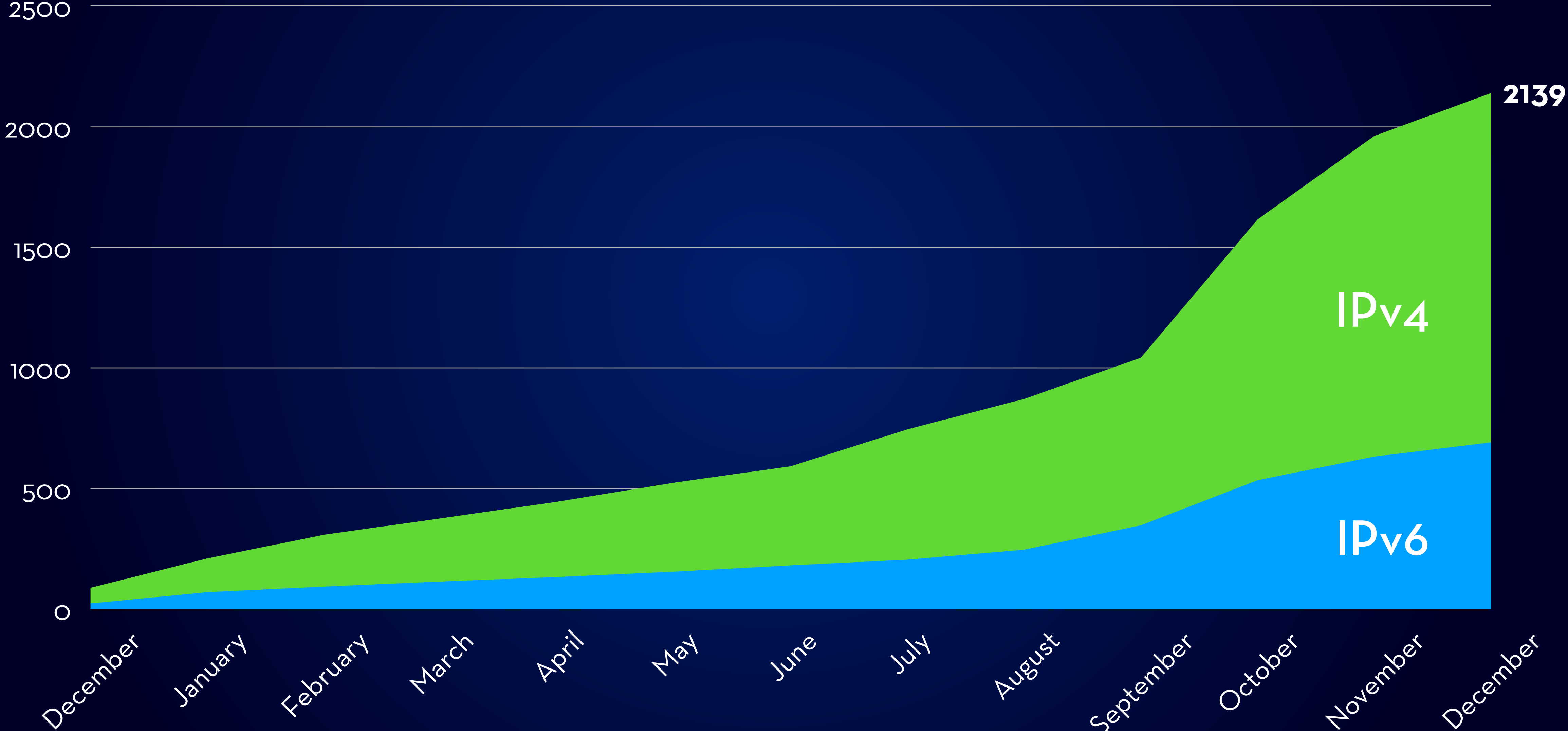
in Brazil



CERTIFICATE AUTHORITIES



VALIDATED ROA PREFIXES



9.1% COVERED

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: [rpki.exposed](https://rpkiconsulting.com/rpki-exposed/)

VIBRANT ECOSYSTEM

- rpki.readthedocs.io – Documentation and FAQ
- [JDR](#) – A tool to help you explore, inspect and troubleshoot anything RPKI
- rpki@lists.nlnetlabs.nl – Mailing list with 500+ subscribers
- [From Zero to RPKI Hero](#) – Webinar on ROV with RIPE NCC, NLnet Labs, Cloudflare, Cisco, Arista, Juniper and Nokia

 @krillrpki & @routinator3000