

Introducing the NRO RPKI Program

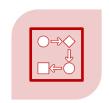
Sofía Silva Berenguer RPKI Program Manager - NRO



Agenda







PROGRAM INTRO

WHAT DO WE WANT TO ACHIEVE?

HOW ARE WE PLANNING TO DO THAT?



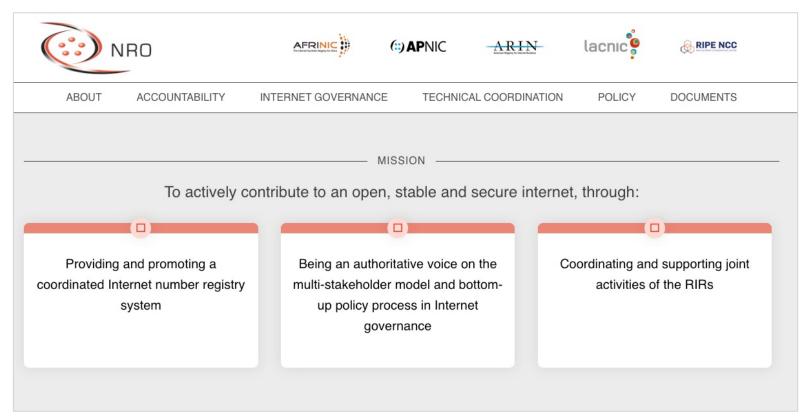


PROGRAM TEAM

Q&A



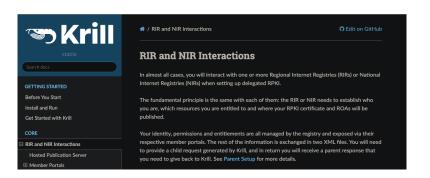
What's the NRO?





Why is this program important?

- Current diversity/inconsistency among RIRs
 - Differences in RPKI related services being offered - Hosted/delegated, ROAs, AS0, etc
 - Integrations (or lack of) between RPKI and IRR services





Registry	Index		ARIN	APNIC	LACNIC	AFRINIC	RIP
ROA Certificate	1a	Auto Renewal of a ROA	NO	YES	YES	NO	YES
	1b	Standard Validity	825d 10yr	1yr	1yr	10yr	2yr
	1c	Alerting on expiration or renewal	YES	NO	NO	NO	NO
ROA Certificate	2a	API for ROA Management	YES	NO	NO	NO	YES
	2b	API Security	NO	NO	NO	NO	NO
Infrastructure Reliability	3a	Service health Status	YES	NO	NO	NO	NO
	3b	Service health degradation notification	YES	NO	NO	NO	NO
ROA Validation	4a	Invalid subnet validation	NO	NO	NO	NO	NO
	4b	ASN change validation	NO	NO	NO	NO	NO

Annex I. Compliance Status of the top-level ORSs



Program Intro

NRO Strategic Review Process Agreement to work toward providing a robust, coordinated and secure RPKI service

The NRO RPKI Program was created

- Purpose: "To provide a more consistent and uniformly secure, resilient and reliable RPKI service"
- Removing barriers for RPKI adoption currently experienced by network operators who create RPKI objects through multiple RIRs.



What do we want to achieve?

- Purpose: "To provide a more consistent and uniformly secure, resilient and reliable RPKI service"
- More specifically, we want to achieve the following outcomes:
 - Entities interacting with multiple RIRs are able to do so through a single spec interface.
 - Improved transparency on the robustness of the RPKI system
 - Enhanced security consistency of the RPKI system across the different RIRs
 - The technical community is kept informed and engaged throughout the program, and their concerns are addressed in a coordinated way.



How are we planning to do that?

The RPKI Steering Group is meeting in person this week

- We will be working on an implementation plan to achieve our objectives
 - Brainstorming initiatives
 - Prioritising based on value vs effort



Program Team



The **NRO EC**, as the executive sponsor of the program, with a role of strategic goal prioritisation, approval and funding.



The NRO **RPKI Program Manager**, with a role of operational direction, oversight and support



The RPKI Steering Group, which includes RPKI experts from the five RIRs and has a role of specific direction and advise related to agreed objectives



Other RIR **RPKI Subject Matter Experts** (SMEs) and consultative groups, with a role of goal delivery and execution



RPKI Steering Group

Name	Title	RIR
Yogesh Chadee	Head of Value Added Services	AFRINIC
Anton Strydom	Director, Engineering	APNIC
Tom Harrison	Product and Delivery Manager - Registry Product	APNIC
Mark Kosters	Chief Technology Officer	ARIN
Brad Gorman	Senior Product Owner, Routing Security	ARIN
Carlos Martinez Cagnazzo	Chief Technology Officer	LACNIC
Jorge Cano	Senior Software Architect	LACNIC
Felipe Victolla Silveira	Chief Technology Officer	RIPE NCC
Tim Bruijnzeels	Principal Engineer RPKI	RIPE NCC



We want to hear from you!

- What are the main barriers or obstacles for RPKI adoption that could be solved (or at least improved!) through better coordination and collaboration among the RIRs?
- Do you have ideas of initiatives we should consider?
- Please share them sending an email to rpki_program@nro.net



Do you want to know more?



- Visit our webpage:
 - https://www.nro.net/technicalcoordination/security/certification/#rpki program
- Read the first blog article of the series:

https://blog.apnic.net/2024/03/11/improving-regional-internet-registry-

alignment-in-the-rpki-space/





Q&A

