

Introducing the NRO RPKI Program

lumber

Resource

Organization

Sofía Silva Berenguer RPKI Program Manager - NRO







PROGRAM INTRO

PROGRAM TEAM

WHAT DO WE WANT TO ACHIEVE?

GET IN TOUCH AND LEARN MORE Number Resource Organization

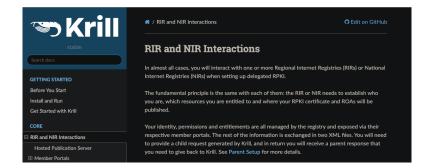


001:610:240 193.0.0.203 18508.02.03



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





Annex I. Compliance Status of the top-level ORSs (as of July 2021)

Registry	Index		ARIN	APNIC	LACNIC	AFRINIC	RIPE
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
	Зb	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

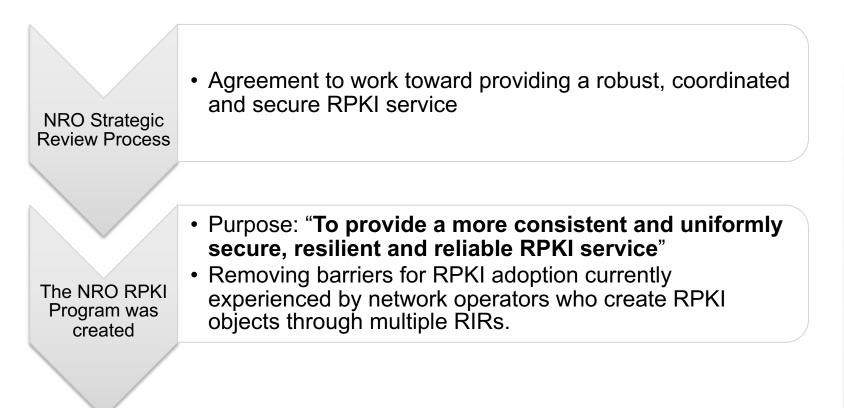
Sources:

https://krill.docs.nlnetlabs.nl/en/stable/parent-interactions.html

https://manrs.org/resources/common-roa-management-requirements-and-security-standards-for-operators-of-rpki-services-ors/







Number Resource Organization



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

Number Resource Organization



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:
 - Definition of what a single global RPKI system looks like.
 - Better understanding and improved transparency of 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.

Number

Resource

Organization



We want to hear from you!

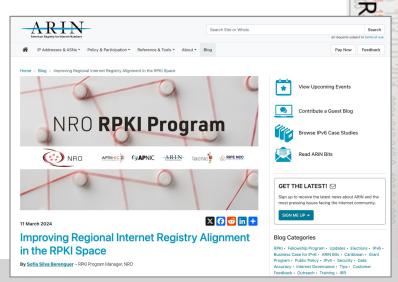
- What are the main barriers or obstacles for RPKI adoption that could be solved (or at least improved!) through better coordination and collaboration among the RIRs?
- Do you have ideas of initiatives we should consider?
- Please share them sending an email to <u>rpki_program@nro.net</u>



Do you want to know more?

💮 NRO lacnic AFRINI (:) APNIC ARIN RIPE NCC ABOUT ACCOUNTABILITY INTERNET GOVERNANCE TECHNICAL COORDINATION DOCUMENTS POLICY The NRO RPKI Program What's the NRO RPKI Program? As a result of the NRO Strategic Review Process, the NRO agreed to work toward providing a robust. coordinated and secure RPKI service. To achieve this strategic goal, the NRO RPKI Program was created, with a more specific purpose of providing 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.

- Visit our webpage:
 - <u>https://www.nro.net/technical-</u>
 <u>coordination/security/certification/#rpki_program</u>
- Read the first blog article of the series:
 - <u>https://www.arin.net/blog/2024/03/11/improving-</u> <u>rir-alignment-rpki/</u>



Number





Number Resource Organization