



RIPE NCC

RIPE NETWORK COORDINATION CENTRE

The Lifecycle of our RPKI Validator

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Recent Work

Significant Changes



- Since release 3.1-2020.09.25.11.16
 - Performance improvements: 25% less CPU consumption
 - Improvements in memory consumption
 - Improvements in the cache to create space for large ROAs (AS0 from APNIC)
 - Remove repositories from the cache if they are not referred by any certificate for seven days

Strict Validation by Default



- Different Relying Party software behaves differently with regards to manifest validation rules
- SIDROPS works to address this in [draft-ietf-sidrops-6486bis](#)
- Still some loose ends in the draft, but Relying Party software is moving forward

RIPE NCC RPKI Validator 3.2



- Released into production yesterday
- Can be found at
 - <https://ftp.ripe.net/tools/rpki/validator3/prod/>
 - <https://github.com/RIPE-NCC/rpki-validator-3>
- Minor differences from current 6486-bis draft:
 - No fall back to a previous version of the CA that would still be valid
 - All objects listed on the manifest reside at the same publication point
 - CRL and manifest next update times are not checked for consistency
- We recommend to update to version 3.2



Plan for the Future

Timeline



Phase 1



- 28 October 2020 - 31 December 2021
- Work continues as normal:
 - Features
 - RFC implementations
 - Policy implementations (AS0 in other regions)
 - Bug fixes
 - Security fixes
- Community will be informed of future timeline

Phase 2



- 1 January 2021 - 28 February 2021
- No new features will be implemented
- Continued work on:
 - RFC implementations
 - Policy implementations (AS0 in other regions)
 - Bug fixes
 - Security fixes
- Training material and website will be updated

Phase 3



- 1 March 2021 - 30 June 2021
- No more work on RFC and policy implementations
- Continued work on:
 - Bug fixes
 - Security fixes
- On 1 July 2021 we will archive the RIPE NCC RPKI Validator

Alternatives



- All are open source:
 - Routinator - <https://github.com/NLnetLabs/routinator/>
 - FORT - <https://github.com/NICMx/FORT-validator/>
 - OctoRPKI - <https://github.com/cloudflare/cfrpki>
 - RPKI-client - <https://rpki-client.org/>
 - Prover - <https://github.com/lolepezy/rpki-prover>
 - Rpstir2 - <https://github.com/bgpsecurity/rpstir2>



Questions



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