

RIPE2019-08

RIPE 80

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Proposal history

Still interested in understanding
if this new proposal suits the
community!

1

First Version

Initial proposal: AS0 ROAs created by RIPE NCC for use in validators

2

Second Version

Major addition: RIPE NCC provides a separate TAL for AS0 ROAs

3

Current Version

Change to provision of SLURM File instead of a new TAL

Current Proposal

Create a SLURM File

Containing exceptions for any unallocated/unassigned space



Not mandatory

Operators can choose not to use the SLURM file

SLURM distributed over https

Any CDN could be used



No 'fake' ROAs

RIPE creates SLURM file and no actual ROAs

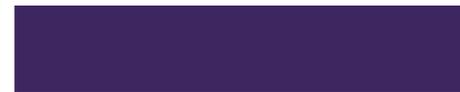
Next Steps

Adoption ?

We still need discussion

Looking forward to comments

I.A. Coming up



Implementation?

Validators should implement

this option for their users



Summary of proposal:

This proposal instructs the RIPE NCC to create a SLURM file containing assertions for all unallocated and unassigned address space under its control with originating ASN AS0. This will enable networks performing RPKI-based BGP Origin Validation to easily reject all the bogon announcements covering resources managed by the RIPE NCC.

Policy text:

New policy text:

The RIPE NCC will create a SLURM file containing assertions with origin AS0 for all the unallocated and unassigned address space (IPv4 and IPv6) for which it is the current administrator. The file will be available for download from a well-known URL published by the RIPE NCC, so that Relying Parties (the so-called Validators) will be able to, in an automated way, fetch them and make use of them as described in RFC 8416.

Any resource holder can create AS0 (zero) ROAs for the resources they have under their account/administration. Creating a SLURM file containing similar information has the same effect on Relying Parties.

An RPKI ROA is a positive attestation that a prefix holder has authorised an Autonomous System to originate a route for this prefix to the global BGP routing table. An RPKI ROA for the same prefixes with AS0 (zero) origin shows a negative intent – indicating that the resource holder does not want the prefixes to be advertised in the global BGP routing table.

The RIPE NCC will update the relevant entry in the SLURM file with origin AS0 before allocating address space to one of its members.



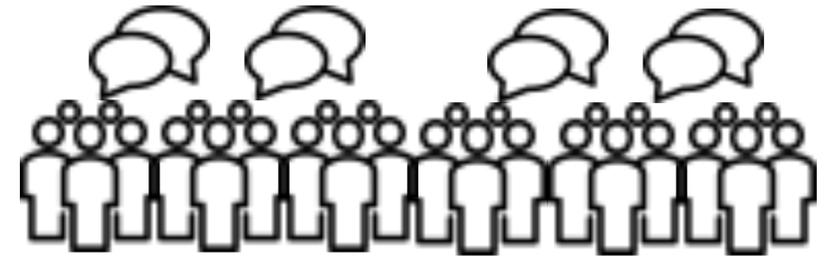
Time to ask your

Questions?

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Lots of

Feedback



We listened to community feedback and adapted the proposal:

ASO -> Separate TAL -> SLURM

Still interested in understanding if this new proposal suits the community.