



**ROUTE SERVER  
SUPPORT FOUNDATION**

**@RIPE86, 25 May 2023**

***Niels Raijer:***

- *owner of Fusix Networks*
- *chairman of RSSF*
- *vice chairman of NLNOG*
- *founder of Coloclue*
- *... and not a coder!*



Niels Raijer  
Chairman



Job Snijders  
Secretary



Jean-Micheal Veen  
Treasurer



Claudio Jeker  
Lead Developer



Theo Buehler  
Cryptography Developer



Bram Heerink  
Project Lead



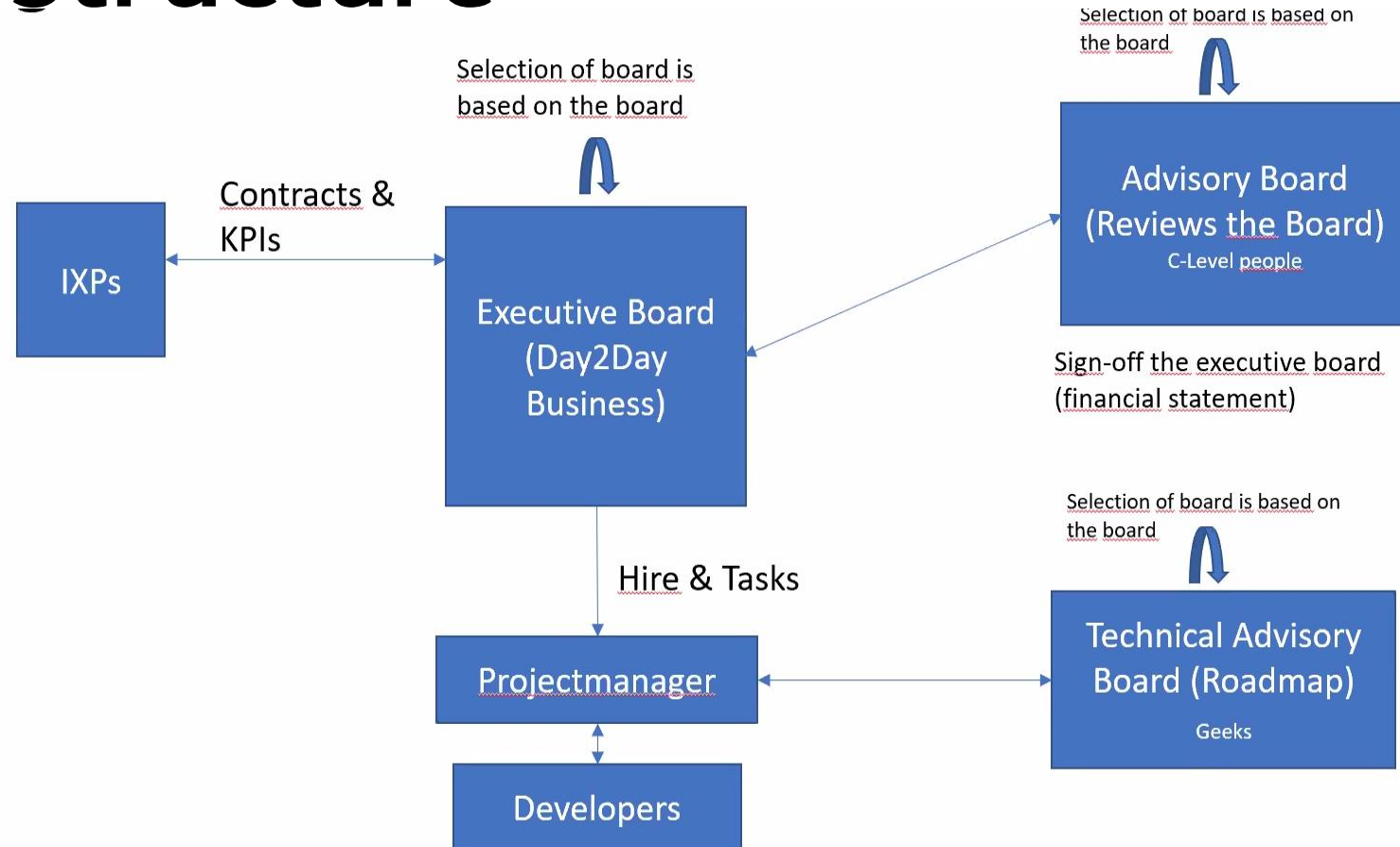
# What we do (1)

- RSSF is a formal body (“Stichting”)
- Started for providing support on OpenBGPD to our 4 founding members: DE-CIX, Netnod, LINX, AMS-IX, with the goal of diversifying their route servers; roadmap is scale to thousands of peers and implement necessary features

## What we do (2)

- From the start with support from JPNAP and ISOC
- Since December 2022, NL-IX is on board too
- Since end of 2022, we offer support on rpki-client, too

# Structure



# What we NOT do

- Have a secret agenda to shoot the BIRD (the goal is diversity!)
- Fork OpenBGPD (new features and capabilities benefit everyone!)

# IX developments

- Many tests performed and APIs tested
- Some of the smaller peering LANs now run on OpenBGPD next to BIRD, and the LINX LON2 LAN does so, too!
- On track for introduction of OpenBGPD on other large peering LANs

# OpenBGPD developments



**Claudio Jeker**

OpenBGPD 8.0 released

To: [announce@openbsd.org](mailto:announce@openbsd.org)



This message is from a mailing list.

We have released OpenBGPD 8.0, which will be arriving in the OpenBGPD directory of your local OpenBSD mirror soon.

This release includes the following changes to the previous release:

- \* Include OpenBSD 7.3 errata 001:  
A new ASPA object appeared in the RPKI ecosystem and exposed bugs in `bgpd(8)` and `rpki-client(8)`.
- \* Introduce a semaphore to protect intermittent RTR session data from being published to the RDE.
- \* Add first version of flowspec support. Right now only announcement of flowspec rules is possible.
- \* Improve and extend the `bgpctl` parser to handle commands like ``bgpctl show rib 192.0.2.0/24 detail``. Also add various flowspec specific commands.

OpenBGPD-portable is known to compile and run on FreeBSD and the Linux distributions Alpine, Debian, Fedora, RHEL/CentOS and Ubuntu. It is our hope that packagers take interest and help adapt OpenBGPD-portable to more distributions.

We welcome feedback and improvements from the broader community. Thanks to all of the contributors who helped make this release possible.



# rpki-client developments



**Sebastian Benoit**

rpki-client 8.4 released

To: [announce@openbsd.org](mailto:announce@openbsd.org)



This message is from a mailing list.

rpki-client 8.4 has just been released and will be available in the rpki-client directory of any OpenBSD mirror soon.

rpki-client is a FREE, easy-to-use implementation of the Resource Public Key Infrastructure (RPKI) for Relying Parties (RP) to facilitate validation of BGP announcements. The program queries the global RPKI repository system and validates untrusted network inputs. The program outputs validated ROA payloads, BGPsec Router keys, and ASPA payloads in configuration formats suitable for OpenBGPD and BIRD, and supports emitting CSV and JSON for consumption by other routing stacks.

See RFC 6480 and RFC 6811 for a description of how RPKI and BGP Prefix Origin Validation help secure the global Internet routing system.

rpki-client was primarily developed by Kristaps Dzonsons, Claudio Jeker, Job Snijders, Theo Buehler, Theo de Raadt and Sebastian Benoit as part of the OpenBSD Project.

This release includes the following changes to the previous release:

- The synchronisation protocol used to sync the repository is now included in the OpenMetrics output.
- In filemode (-f option) the applicable manifests are now shown as part of the signature path.
- A new -P option was added to manually specify a moment in time to use when parsing the validity window of certificates. Useful for regression testing. Default is invocation time of rpki-client.

# Funding from an unexpected source (1)

- Pilot round from “Sovereign Tech Fund”
- Outlined three OpenBGPD goals:
  - ASPA support
  - Improved RDE performance
  - Improved Linux support
- Received funding!

# Funding from an unexpected source (2)

- Evaluation conference in Berlin last month
- Noted that as a foundation we seemed to be ahead of many other developers; they're all seeking continuity
- The whole process started out easily, ended up with time sheets and paperwork. Trial round joys.

# Funding from an unexpected source (3)

- Our three goals are now almost all implemented (yes, that includes ASPA support in OpenBGPD)
- STF has additional funding available for a new round and is open to new applications:

<https://sovereigntechfund.de/>

# What we have learned so far

- Really happy with the foundation's structure
- Business model was perhaps not the best at the start - rpkg-client really helps
- The “support” in our foundation's name has evolved to “work to support development” instead of “help with operations”
- Software development stays on track if developers work with peace of mind

Qs?



**ROUTE SERVER  
SUPPORT FOUNDATION**