



**RIPE NCC**  
RIPE NETWORK COORDINATION CENTRE

# RPKI Validator Development

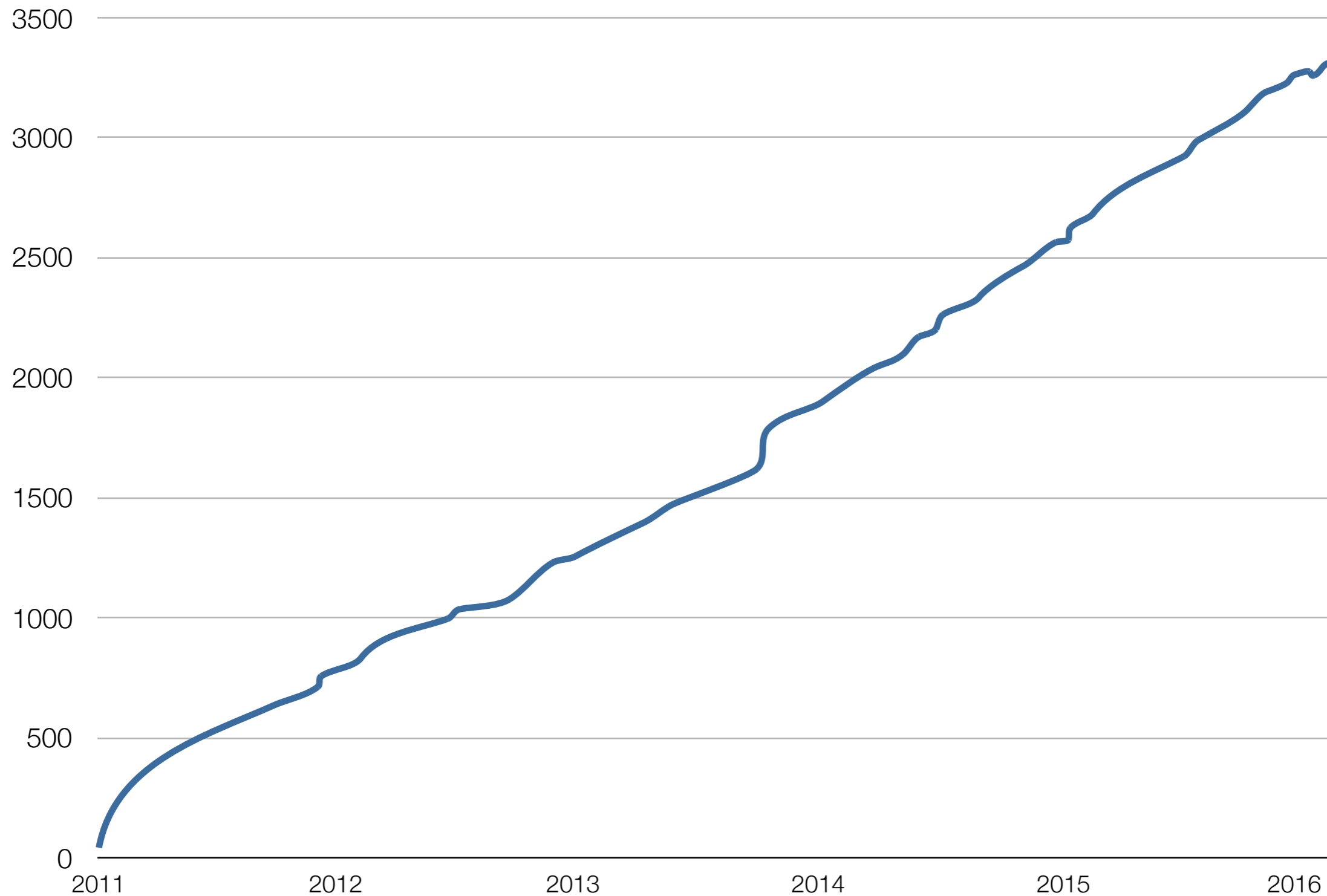


# **RPKI Publication**

# RPKI Uptake in the RIPE NCC Region



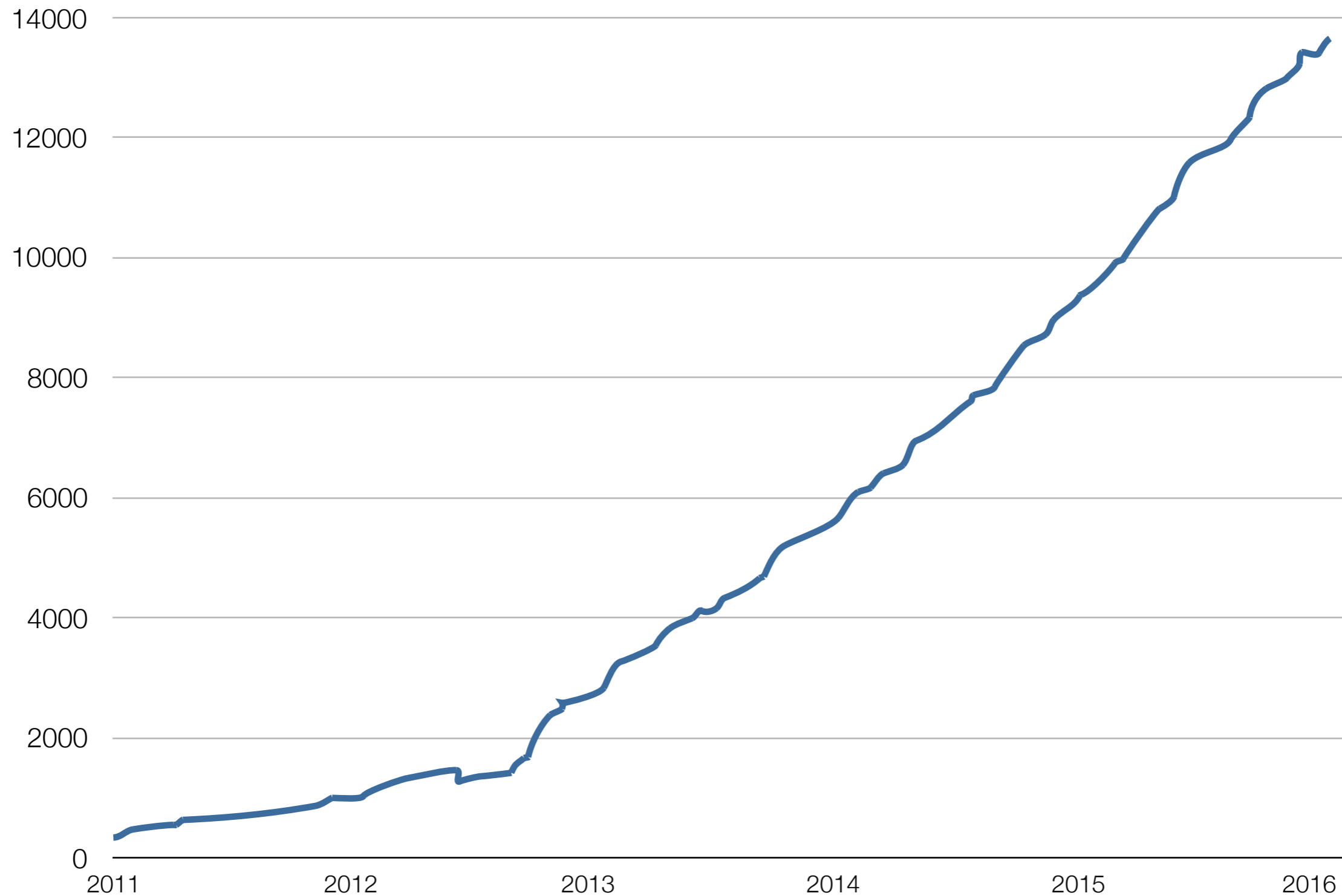
Over 25% of members have requested an RPKI certificate



# RPKI Uptake in the RIPE NCC Region



Almost 14,000 prefixes cover nine /8 IPv4 blocks





# **RPKI Validation**

# RPKI Validation Software



- **A toolset is required to use RPKI data**
  - Does cryptographic validation
  - Offers a workflow to make routing decisions
- **Currently three solutions available**
  - rcynic relying party software — Dragon Research Labs
  - RPSTIR — BBN Technologies
  - RPKI Validator — RIPE NCC

# Problem Statement



- **Design don't match current user demand**
  - Original design goal was a simple package to get started
  - Easy to install, no dependencies, everything integrated
  - Great for a quick test, but not for continued production use
- **Resource intensive**
  - High CPU and memory usage with growing data set
- **Does not leverage from existing IRR data**

# Proposed Solution



- **Modern, stable Routing Workflow Toolset**
  - Tailored to the operational needs of users
  - Packages for all major server Operating Systems
- **Secure, modular design**
  - Allowing flexible integration for each use case
- **Integrate IRR functionality**
  - Allow operators preferences based on ROAs and routes



# Your Support Is Needed



- Do you support the RIPE NCC in investing additional effort to improve the RPKI Validator?
- Please tell us!

# Feedback



- **Get your feedback on design, e.g.**
  - Operating System support, configuration options
  - Security, database support, package development
- **Get your feedback on feature set, e.g.**
  - RPKI data and IRR data support, scripting and API support
  - Comparison to RIPE NCC route collector data
  - Integration with alerting tools (in case hijacks occur)



# Questions

