



**RIPE**  
**NCC**

# **RPKI for PI Resources**

## **Implementing policy 2013-04**

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Alex Band  
Product Manager

- Proposed by Erik Bais on 3 May 2013
- Reached consensus 2 October 2013
- Implementation is done
- Free, additional RIPE NCC service is available **now**
- Allows Sponsoring LIRs or PI End Users request and manage a certificate and ROAs

- End User Assignment Agreement submitted and verified by the RIPE NCC
- All RIPE DB records match with the RIPE Registry
  - Aids registration data quality
- You can prove you have authoritative control over the resources

- Complex implementation
  - Making **LIR** Portal available for non-members
  - Offer a single flow that caters to both Sponsoring LIR and PI End Users
  - Ensuring security en integrity of the system
  - Link the authentication mechanisms of LIR Portal (SSO) and RIPE Database (maintainers)

- Added Single Sign-On to the RIPE Database
- Built support for non-members in the LIR Portal
  - Added organisation-ids
- Built tooling to identify mismatches between RIPE Database and RIPE Registry information
- Locked specific attributes in the RIPE Database according to existing business processes
  - For example, **org:** and **org-name:**
- **Make the flow super easy for users!**



## Resource Certification (RPKI) for PI End User Resources

You are signed in as **user@example.net**

Enter organisation or prefix:



Org id, org name or prefix

### Maintainers

Password for maintainer

Associate

### Resources

Continue to RPKI



## Resource Certification (RPKI) for PI End User Resources

You are signed in as **user@example.net**

Enter organisation or prefix:



**snijders** ORG-SNIJ1-RIPE / Job Snijders

Maintainers

Associate

Resources

Continue to RPKI





## Resource Certification (RPKI) for PI End User Resources

You are signed in as **user@example.net**

Enter organisation or prefix:



194.33.96.0/24

**194.33.96.0/24** ORG-SNIJ1-RIPE / Job Snijders

Maintainers

Password for maintainer

Associate

Resources

Continue to RPKI





## Resource Certification (RPKI) for PI End User Resources

You are signed in as **user@example.net**

Enter organisation or prefix:



ORG-SNIJ1-RIPE / Job Snijders

### Maintainers



**SNIJDERS-MNT**

Password for SNIJDERS-MNT

Associate

### Resources

Continue to RPKI



## Resource Certification (RPKI) for PI End User Resources

Enter organisation or prefix:



ORG-SNIJ1-RIPE / Job Snijders

You are signed in as **user@example.net**

### Maintainers



**SNIJDERS-MNT**

### Resources

.....

Associate

Continue to RPKI



## Resource Certification (RPKI) for PI End User Resources

You are signed in as **user@example.net**

Enter organisation or prefix:



ORG-SNIJ1-RIPE / Job Snijders

### Maintainers



SNIJDERS-MNT

.....

Associate

### Resources

The registry information for some of your resources contains errors. These resources cannot currently be certified. Please contact your sponsoring LIR to resolve this issue.



194.33.96.0/24



2001:67c:2980::/48



2001:67c:208c::/48

Continue to RPKI



## Resource Certification (RPKI) for PI End User Resources

You are signed in as **user@example.net**

Enter organisation or prefix:



ORG-SNIJ1-RIPE / Job Snijders

### Maintainers



SNIJDERS-MNT

.....

Associate

### Resources



194.33.96.0/24



2001:67c:2980::/48



2001:67c:208c::/48

Continue to RPKI

# ripe.net/certification



