



# **RPKI for PI Resources**

Implementing policy 2013-04

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- 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



# The Implementation: Requirements

 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



# **The Implementation: Dirty Details**

- 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)



# **Getting It Done**

- 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:

Q

Org id, org name or prefix

#### 

Password for maintainer

Associate



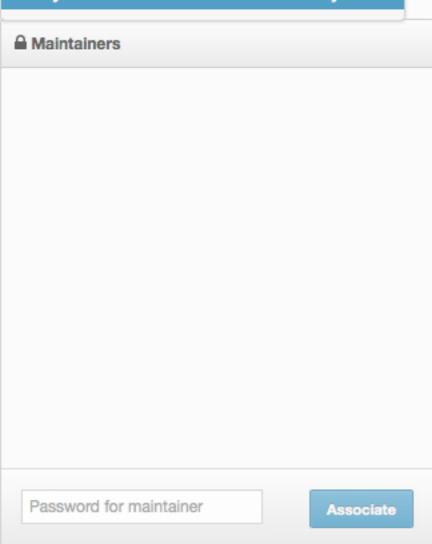
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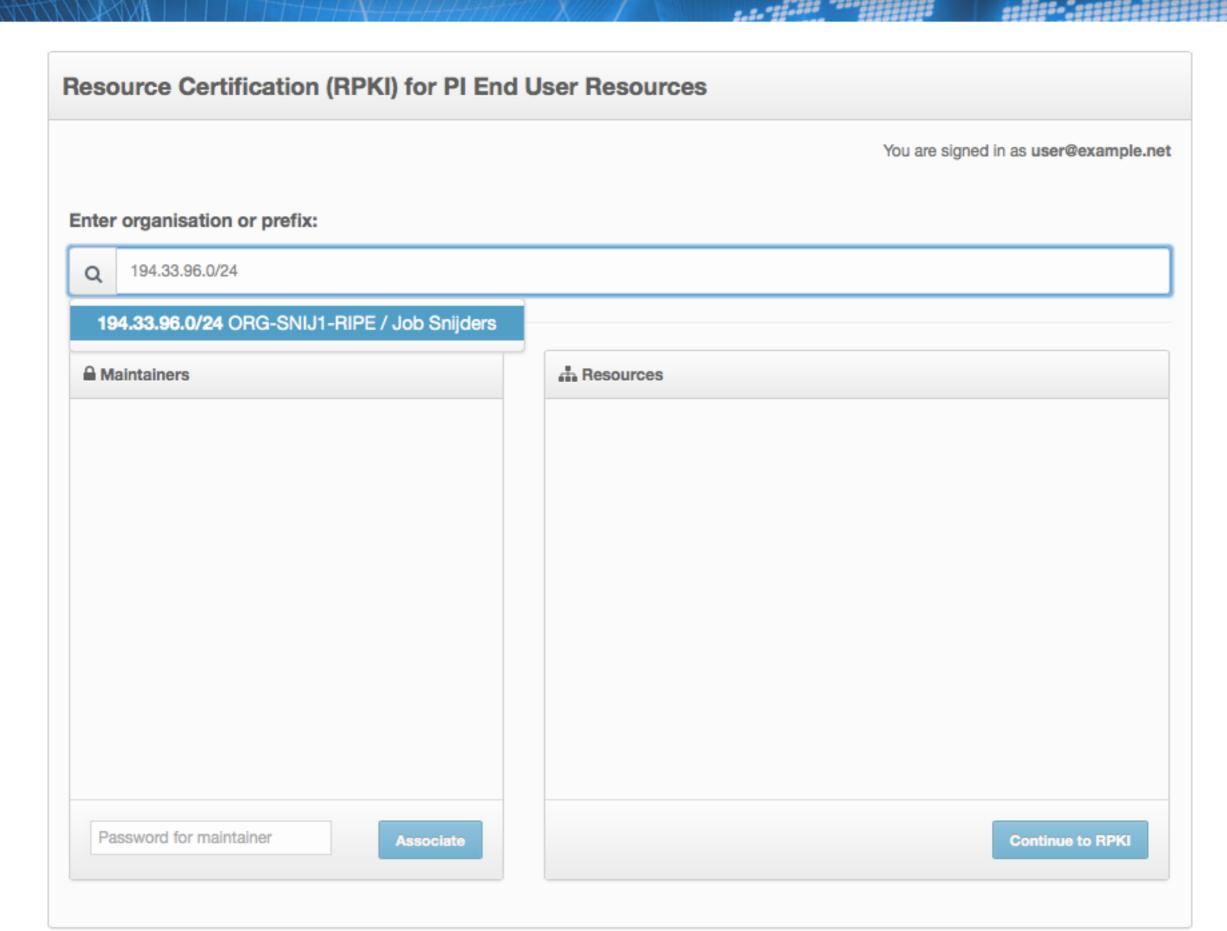
#### Enter organisation or prefix:

snijders Q

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



- Resources





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ORG-SNIJ1-RIPE / Job Snijders





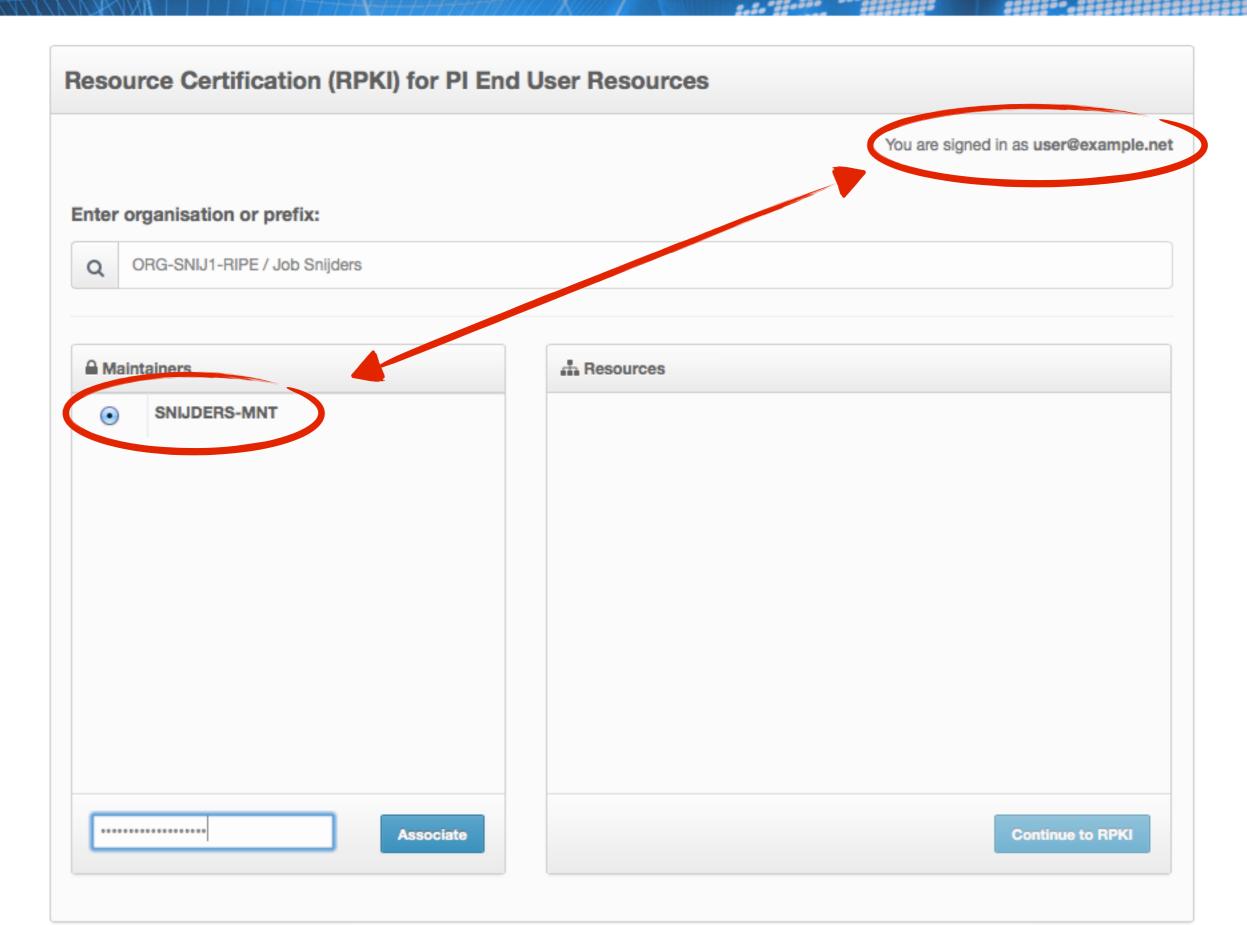
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Password for SNIJDERS-MNT

Associate

- Resources





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

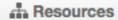
You are signed in as user@example.net

#### Enter organisation or prefix:

Q

ORG-SNIJ1-RIPE / Job Snijders





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

..... Associate

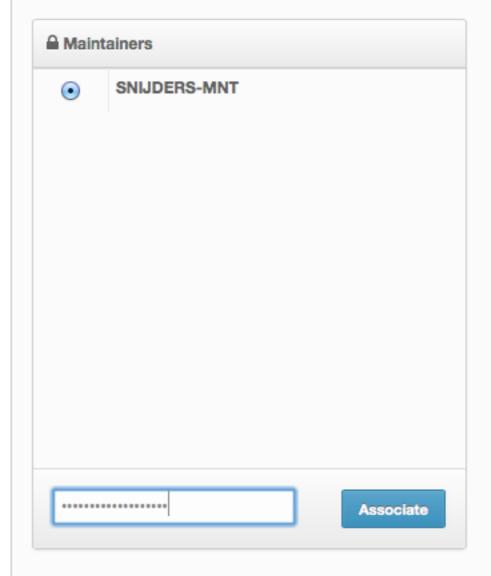
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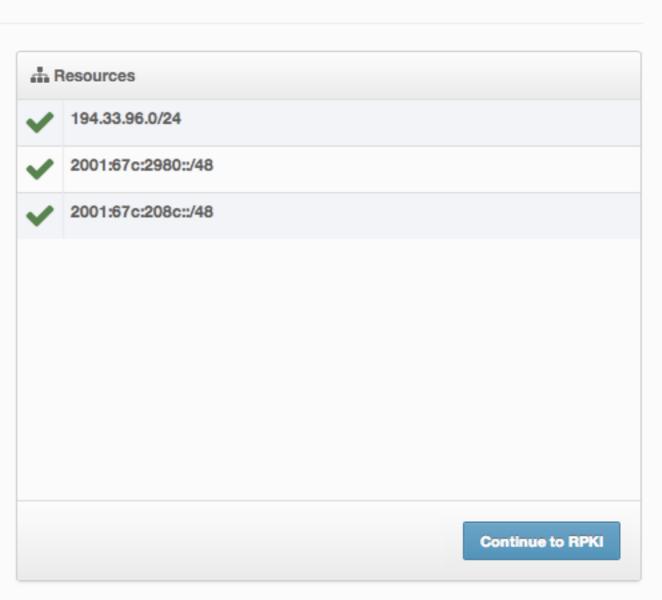
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# ripe.net/certification





