Current CA service

- Hosted member CAs in portal
- Private keys in HSM
- Automated
- Java, BouncyCastle
- Spring, Hibernate
- Jboss
- 397 CAs activated
- 261 ROAs created
Non-hosted -- Phase 1 pilot

- Helps implementation of Up-Down
- Use embedded web server and db
- No dependencies apart from java and rsync
- Software keys only (for now)
- Initial release no publication service

BSD License

RIPE NCC RPKID

ns.bluelight RPKID

up/down

UI

publish

rsync repository
Non-hosted -- Interop

- Test/fix interoperability with other implementations
- Informal specification: ISC rpkid
- Need for BPKI document to ensure continued interoperability?

RIPE NCC
RPKID

nl.bluelight
RPKID

Wednesday, March 30, 2011
Non-hosted CA -- Vision...

RIPE NCC RPKID

nl.bluelight RPKID

Publication Service

rsync repository

ISP ISC RPKID

UI

scripting

up/down

up/down

publish
Validation -- Current *ad hoc*

- **RIPE NCC**
- **NCC Validator**
- **ROA.CSV**
  - | AS  | Prefix       |
  - |-----|--------------|
  - | 3333| 192.168/16   |
  - | 65500| 10/8        |

- **Java, BouncyCastle**
- **BSD License**

*Wednesday, March 30, 2011*