OpenDNSSEC

DNS Working Group @ RIPE 65

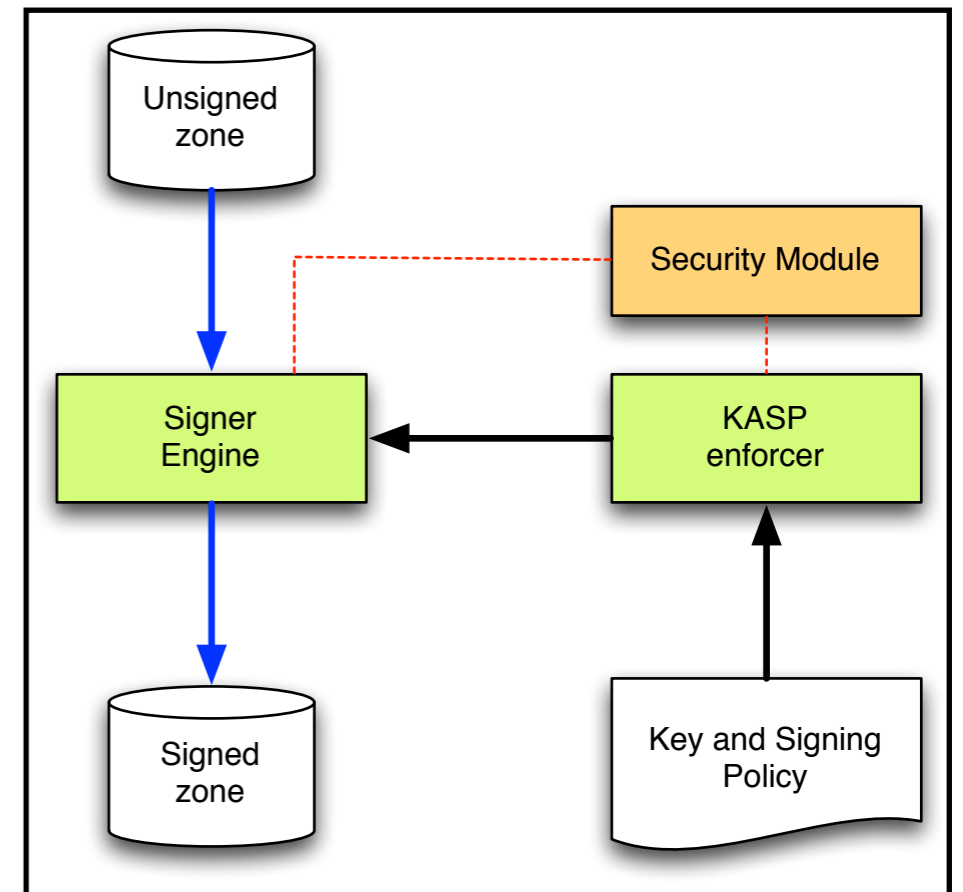Sara Dickinson - sara@opendnssec.org

What is OpenDNSSEC?

OpenDNSSEC

- Turn-key solution for DNSSEC

- Automates zone & key management
  - Signer only (no name server included)

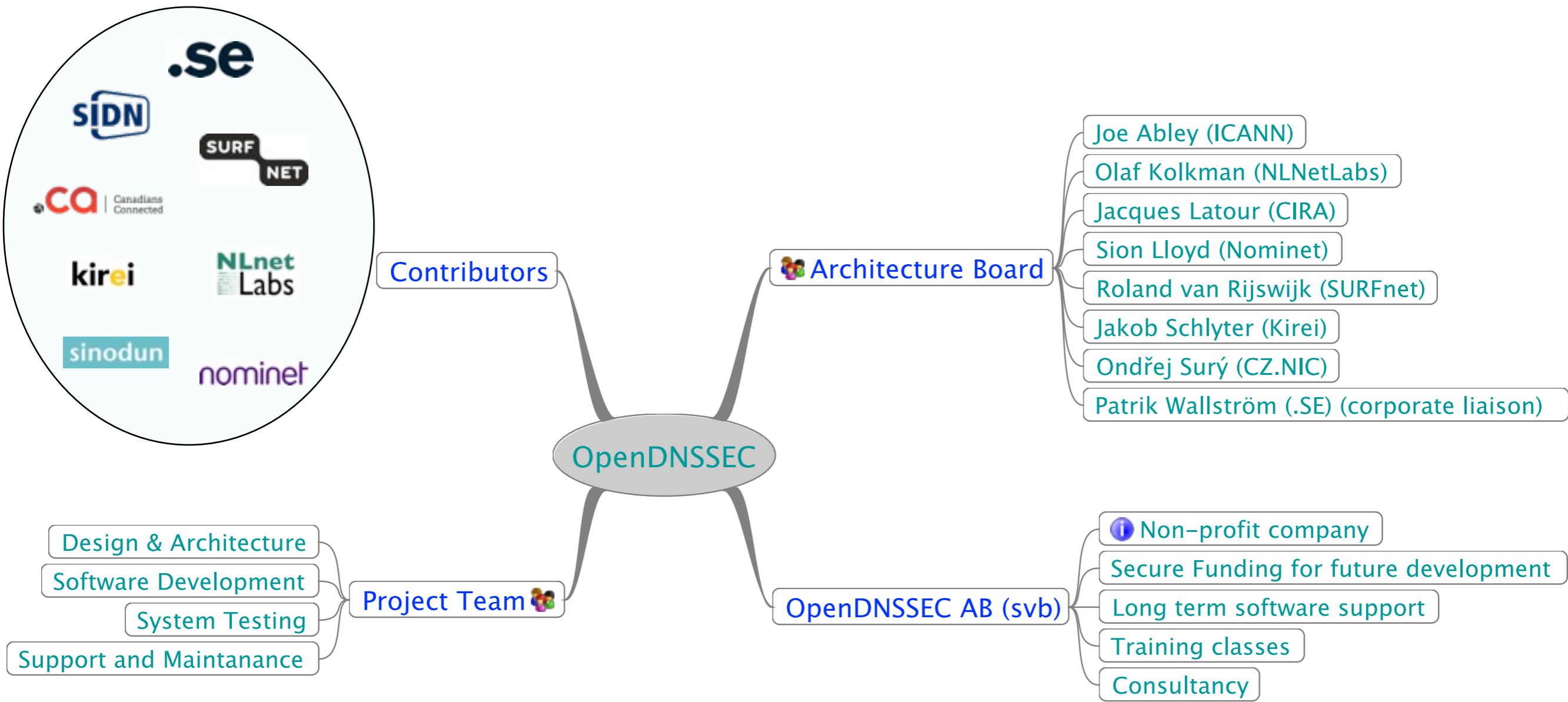- Open Source Software – BSD License

Key Features

- Flexible
  - Policy driven (KASP)

- Scalable
  - many zones, many records
  - key sharing between zones

- Secure
  - PKCS#11 support

- SoftHSM

Organisation

Contributors

Architecture Board
- Joe Abley (ICANN)
- Olaf Kolkman (NLNetLabs)
- Jacques Latour (CIRA)
- Sion Lloyd (Nominet)
- Roland van Rijswijk (SURFnet)
- Jakob Schlyter (Kirei)
- Ondřej Surý (CZ.NIC)
- Patrik Wallström (.SE) (corporate liaison)

OpenDNSSEC

Project Team
- Design & Architecture
- Software Development
- System Testing
- Support and Maintanance

OpenDNSSEC AB (svb)
- Non–profit company
- Secure Funding for future development
- Long term software support
- Training classes
- Consultancy

Updates

OpenDNSSEC 1.3
(Latest stable release)

- Currently 1.3.10

- Stable production code

- SoftHSM 1.3.3

OpenDNSSEC 1.4
(Beta)

- Input & output adapters:

  - File/AXFR/IXFR integrated support

- No integrated auditor (no ruby!)

  - Use validns or similar tool to verify the zone after signing

OpenDNSSEC 1.4
(Beta)

- PIN storage facility

  - No longer have to have HSM PIN in clear text in conf.xml

- Multi-threaded enforcer option (MySQL)

  - Enhanced performance

- Release candidate: Mid October

SoftHSM 2.0

- Under development

- "Plug-able" crypto libraries
  - Support for Botan and OpenSSL

- Improved security

- More information on <u>wiki</u>

Roadmap

OpenDNSSEC 2.0
(Scheduled for 2013)

- Refactoring the 'Enforcer' component

  - Performance

  - Support for multiple key rollover mechanisms

  - Support for algorithm rollover

  - Support for CSK – Combined Signing Key

  - Support for unsigned zones

OpenDNSSEC 2.0
(Scheduled for 2013)

- Some light reading:

  - Key Rollover in DNSSEC

- Alpha & Beta testers wanted!

OpenDNSSEC 2.x

- Database input/output

- Dynamic updates

- Common API for system integration

- …

Feature Requests
We'd like to know what functionality you want!

www.opendnssec.org