

# Status of DNSSEC

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# About NLnet Labs

- NLnet Labs: Research Group
  - DNS & DNS Security
    - Servers
      - Authoritative NSD
      - Unbound: Recursive, Caching, Validating User
    - Routing
      - Modeling Internet
- About myself
  - Long Time Internet User
  - Co-Chair Ripe DNS WG
  - Various other hats

# DNSSEC Specifications

- Basics Protocol Done
  - TSIG
  - NSEC, NSEC3
- Key Rollover Specs
- Maintained by IETF

# DNSSEC Implementations

- Nameserver suppliers
  - Bind
  - NSD, Unbound
  - DNS Appliances
- Announced for Windows
- Missing piece: DNSSEC aware applications
  - Under discussion

# DNSSEC Operational

- Islands of trust
  - Some coupled by DLV
- SE, BG, PR, SEC3.BR
  - plans for other TLDs: ORG, GOV, ARPA
- Various other islands
  - ISPs, end-users, enum implementations
- All show a real need to sign the root
  - NOI by NTIA

# DNSSEC & Resiliency

- The Good News
  - Prevents spoofing and monkey in the middle attacks
    - DNS becomes more stable
  - Allows for even more servers to play with
    - not really rfc compliant
- The Bad News
  - Makes current DNS operation more brittle
    - there is a lot of horribly broken configurations out there