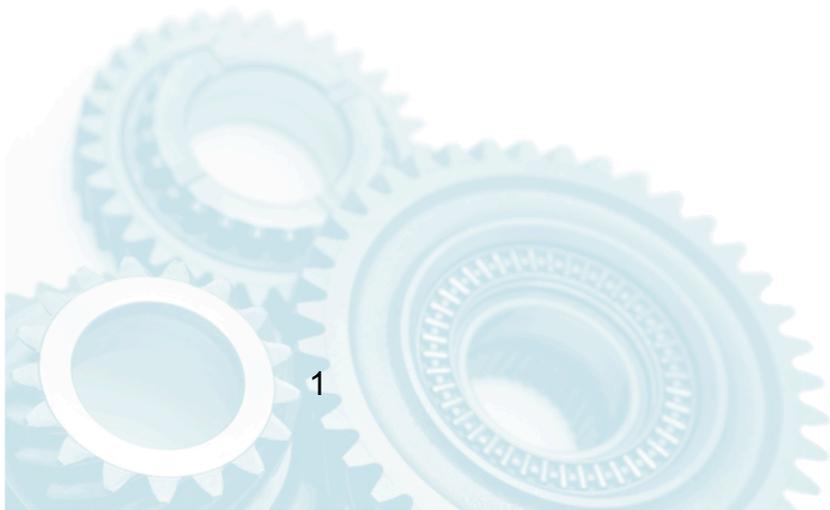


DNSSEC Implementation Approaches



The DLV infrastructure zone

- DLV is a DNS-based deployment aid for early DNSSEC deployment
 - allows early adopters to use DNSSEC now
 - fosters interest from the Domain holders
 - allows other parties to gauge interest
- Uses an open specification to provide the service
- Most commonly based upon the dlv.isc.org zone



Securing the DLV infrastructure

- Biggest challenge was to secure the registry
 - content input validation
- Publish Policy and practice statement
 - how we deal with data, keys and signatures
 - how we secure data

Securing the DLV infrastructure

- Obviously, the zone is signed
 - contributed to tool development that is now available in BIND (and Unbound)
 - 90%+ resolver population
- Keys stored offline in encrypted media
 - not an HSM, but has tight access and usage control, physical access control
- Anycast service on the DNS servers used