

Zero DNS failure domain transfers with DNSSEC

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Background

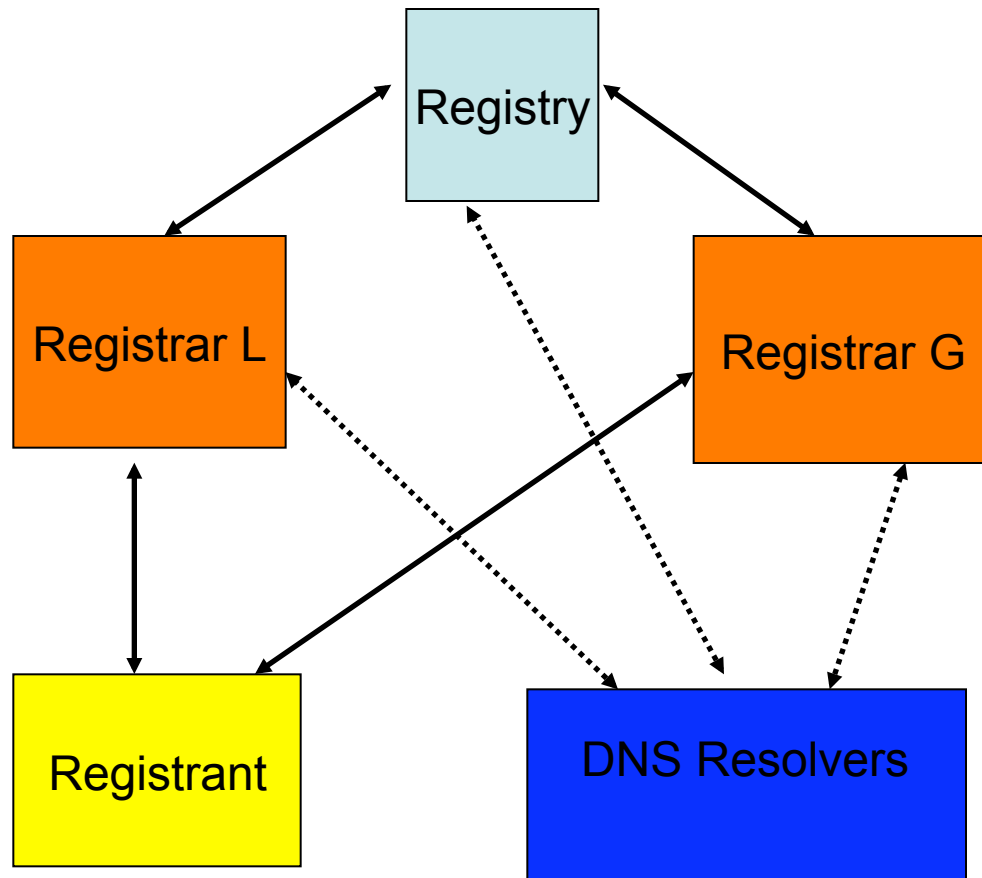
- We wanted to be able to transfer a DNSSEC signed domain
 - with no breakage in verification Looked at:
 - current transfer processes
 - what steps are needed from DNS and DNSSEC perspective.
 - when problems may arise
 - who gets the blame
 - Change as little as possible

DNSSEC keys

- Private keys shared by new and old operator
 - Problem free transfer possible.
- Prior operator does not want to share the private keys with new one.
 - Need new keys that are trusted by DNS resolvers
 - How to establish trust?
 - Add DS entries to registry
 - How to transfer trust?

Complication: multiple parties

- Registration



DNS
resolution

Details

- See:
 - <https://www.dns-oarc.net/files/workshop-200905/gudmundsson.pdf>
 - ??

Summary: Smooth transfer

- Requires assistance by loosing registrar
 - Not much but some
 - We want to minimize
- Requires new flows through registry
 - New key flows from G via registry to L
 - Registry tells L when to stop serving domain