CSYNC: Automatic updates of parental NS and glue records

RFC 7477

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Managing NS and glue records requires Registrant action

DNS OP2

Registrant ⟷ Registrar ⟷ Registry → NS, A, AAAA

EPP

DNS OP1

- Requires Human action from Registrant / Technical Contact
  - Usually involves a non-standard web portal at Registrar
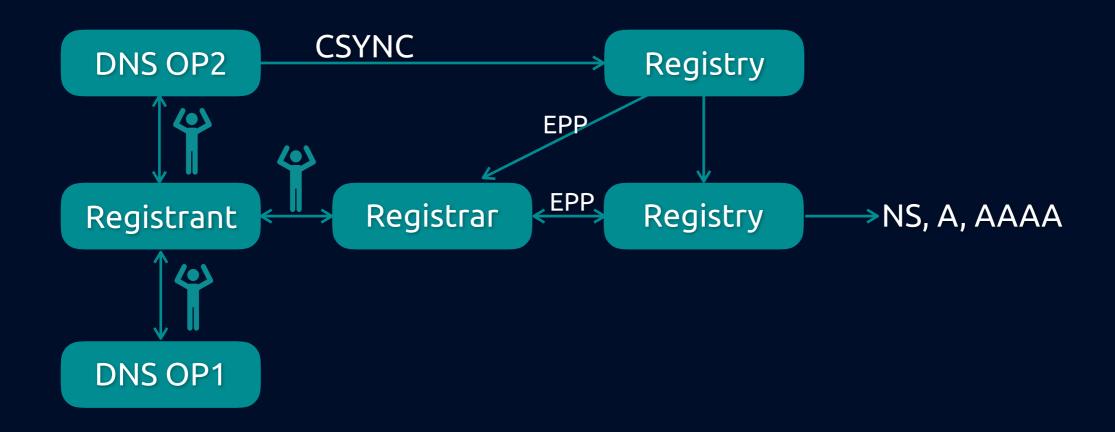- DNS Operators often not registered as Technical Contact

Automatic updating of NS and glue records

- Requires child zone in DNSSEC signed has a DS record at parent. This authenticates the update process

- Child publishes a CSYNC record specifying SOA, flags, RRtypes

    redhat.com. IN CSYNC 2017062401 3 NS A AAAA

- Child can remove CSYNC record when it notices parent has updated

DNS Operator triggered update

- Out of band agreement on hidden primary NS possible
- Out of band child to parent trigger possible