# Automating DNSSEC delegation

*draft-kumari-ogud-dnsop-cds-01*
*Warren Kumari*
*Olafur Gudmundsson*

# Problem

- *Difficult for registrants to roll DNSSEC keys.*

  - *27 clicks, much typing, more swearing... Browse, login, login again, 4 dropdowns, manage, choose domain, manage nameservers, manage DS, Add / Edit, cut-n-paste DS, fiddle with formatting, cut-n-paste again, curse, fiddle, go, ack, go.*

  - *Apathy!*

# CDS: Child DS

- *Idea: Child publishes what it wants parent to reflect*
  - *simple concept easy for child to express*
    - *only difference between CDS and DS is the type code*
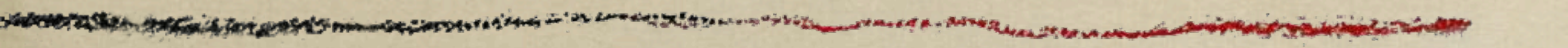  - *Consequence: **parent** scans for CDS*

# Only DS!

- *Proposals to do NS (solve lame issues, etc).*
  - *Someone else…*

# CDS protocol 101

- *Child publishes CDS signed by KSK*
  - *Parent queries for CDS*
- *Validates and translates into changes in DS set*
  - *Child checks for changes in DS*
  - *Child moves to next step in rollover*
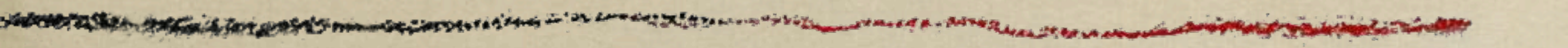    - *Child updates/removes CDS*
- *Repeat*

# Disclaimers...

- *Big red button*
  - *Abort, abort!*
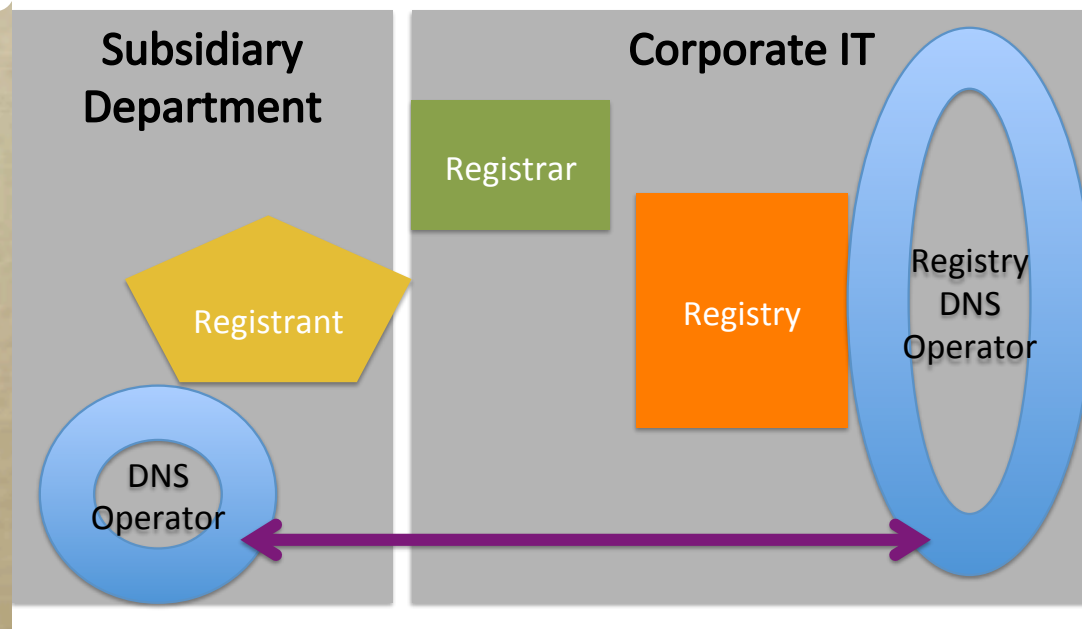- *Not for enrollment. Seriously.*
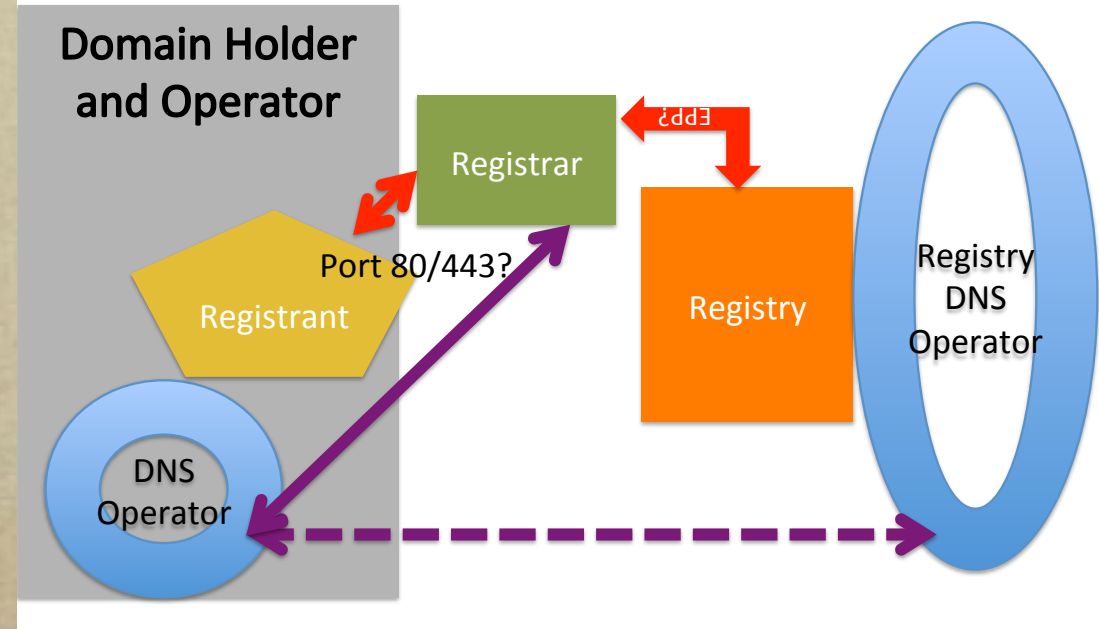
# Questions?

*draft-kumari-ogud-dnsop-cds-01*

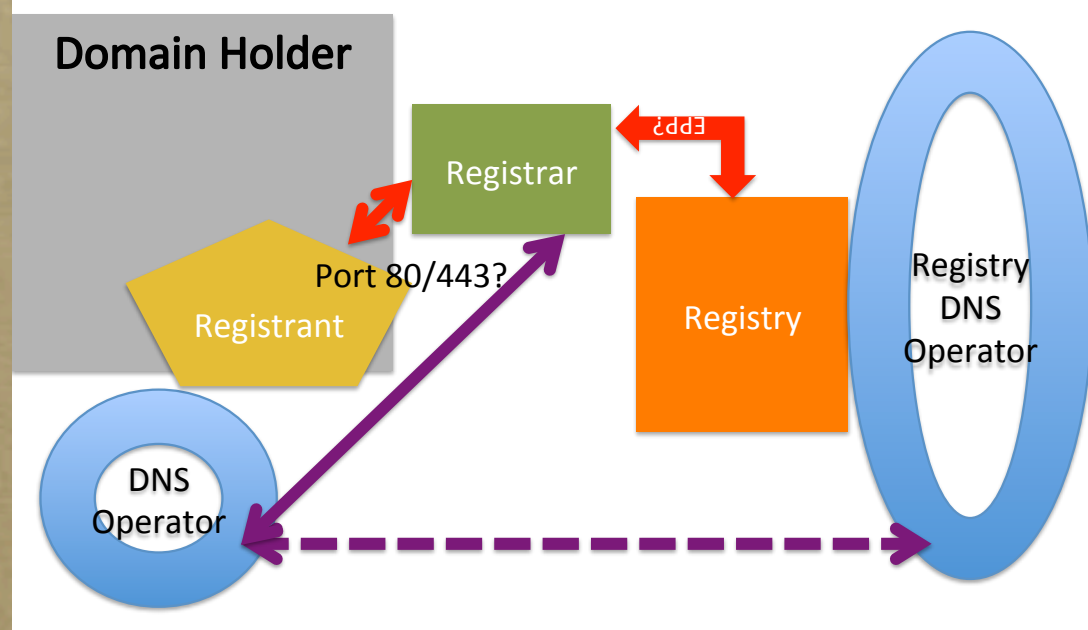# Backup slides

# Relationship Examples



9