

Generalized Notifications

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<https://datatracker.ietf.org/doc/draft-ietf-dnsop-generalized-notify/>

The general idea

- Server A has changed something and wants server B to notice
 - Server B polls, but may not poll for a long time
- Thirty years ago: primary NS tells secondary to AXFR/IXFR
- Now: more kinds of updates, child to parent
 - CSYNC to update NS and glue
 - CDS to update DNSSEC keys

Changes to existing NOTIFY

- The record already has an RRTYPE field for the kind of notification
- We just add to the list of RRTYPEs
- No changes in record format
- No new security issues, parent does the same checks it would do anyway

Where to send them

- RFC 1996 didn't say
 - Primary notifies the rest of the NS for the zone
 - Often hand-configured due to more complex configs
- Child to parent is much more complicated
 - Domain registries all have hidden masters
 - Updates usually through registrars that use EPP to update registry
- New DSYNC RRTYPE in parent
 - Only scheme is NOTIFY, allows expansion for APIs

```
*._dsync.example.      IN DSYNC CDS scheme port target
```

```
child._dsync.example. IN DSYNC CSYNC scheme port target
```

Open questions

- Use SVCB rather than DSYNC?
 - AliasMode or CNAME can point to registrar's SVCB
 - Use port, ipv4hint, ipv6hint, mandatory
 - Add notifyrrtype, notifyscheme
- Will registries adopt DSYNC?
 - Is the wildcard OK? Or use two queries for child._dsync and plain _dsync
 - Delegate _dsync.tld to stunt server?
- Add notifications for new RFC 9615 DNSSEC bootstrap
 - Use the same CDS notify, parent knows if it's bootstrap or rotate
- Further clarifications?
 - DNSDIR review suggested changes, new version posted
- Other issues?