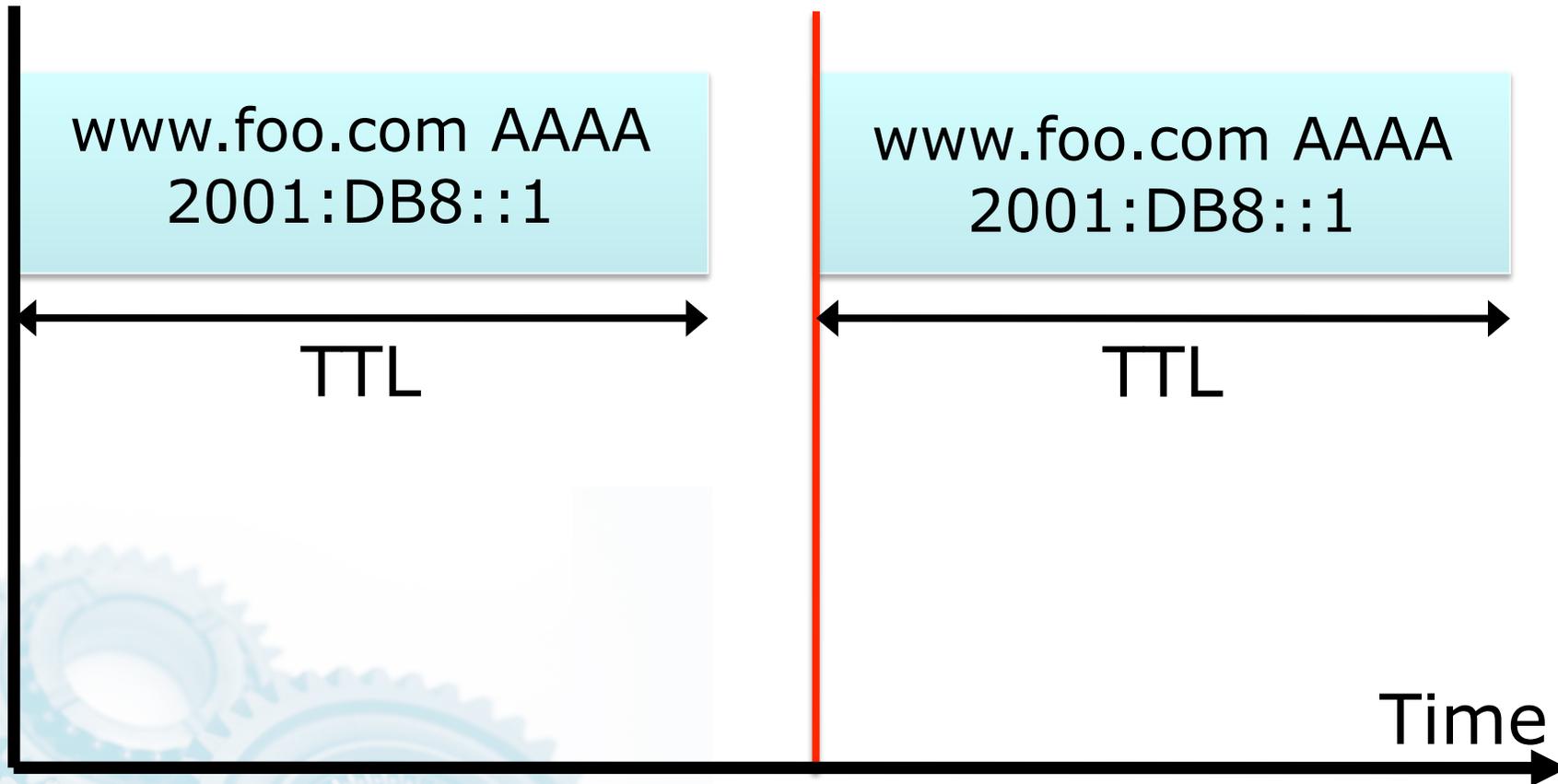


# Opportunistic DNS Refresh

draft-muks-dnsop-dns-opportunistic-refresh-00

Stephen Morris

# RR TTL



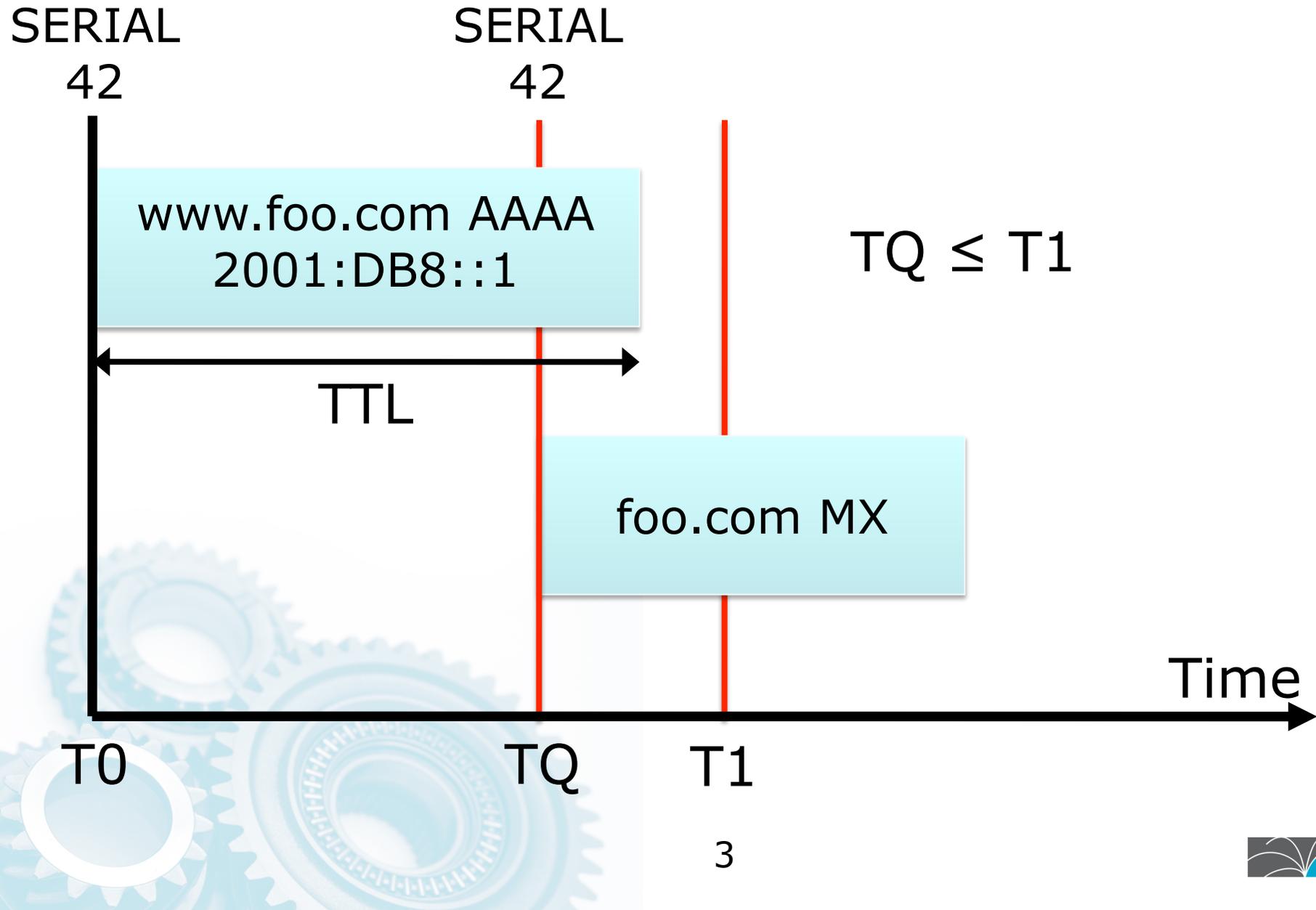
T0

T1

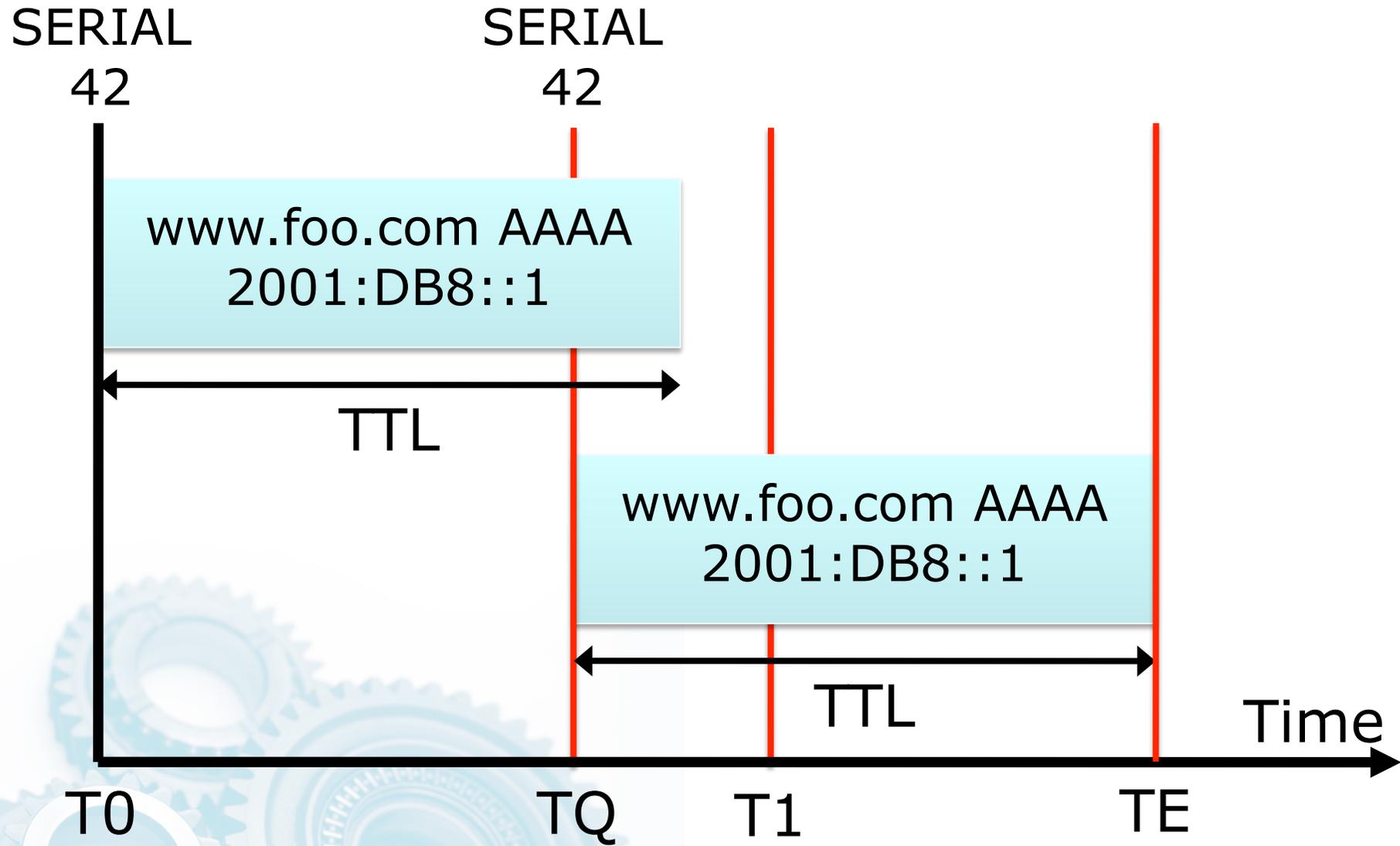
2



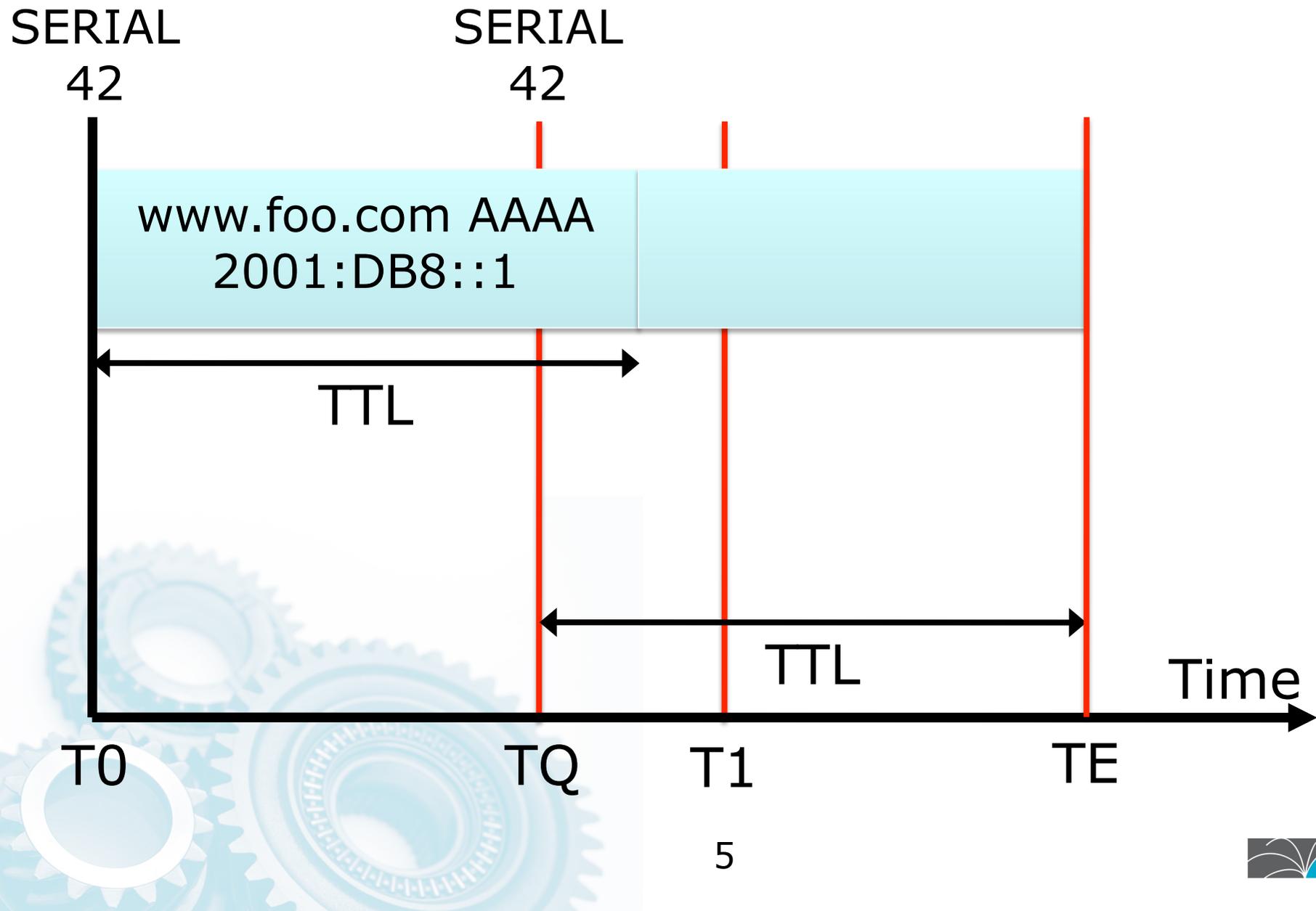
# RR TTL



# RR TTL



# RR TTL



# Zone Serial Information

- Add SOA RR to each response from the zone.
- Serial number must match the serial number associated with the RR for TTL extension to take place.



# Handshake Needed

- Client adds EDNS option to query to request SOA RR – if client doesn't need it, no bandwidth is wasted sending it.
- Server adds EDNS option to response as a guarantee that zone change is accompanied by a version number change.

# Questions/Issues

- Is it useful?
- Should we extend the TTL of NS records this way?
- Is the server's EDNS response option really needed?
- How should we cope with ECS?
- Security?