draft-dnsop-johani-delegation-mgmt-via-ddns-04

- The reference implementation is complete.
  - It now supports automatic bootstrapping of SIG(0) keys according to the same model as for CDS described in RFC8078, section 4.2.
- Based on the experience gained, a couple of issues needed to be addressed.
- In particular, a mechanism was needed for both child and parent to express requirements for SIG(0) key trust bootstrap. Examples include:
  - The parent needs to be able to signal that it does (or does not) support automatic bootstrapping of the child public SIG(0) key.
  - The child needs to be able to signal that it doesn't want the parent to do automatic bootstrapping.

The draft has been updated to address these issues and now refers to a new draft (see next slide) for the key state reporting mechanism.

draft-dnsop-berra-keystate-00

- Another example is that the child needs to be able to inquire about the current state of a SIG(0) key in the parent, and the parent must be able to report back the details. Examples include:
  - Key is known and trusted (i.e. all is good)
  - Key is known but not yet trusted (bootstrapping in progress)
  - Key is refused (algorithm not accepted by the parent)
  - Key is invalid (bits are bad)
  - Key is known, but validation failed (for some reason)
  - etc.

For that reason we have published a new draft, `draft-dnsop-berra-keystate-00`, that describes a mechanism for both child and parent to report key state information to each other.

- This is implemented as a new EDNS(0) option.
- It is sort of a "bi-directional" version of EDE and not restricted to "errors".