

Additional type of DELEG record: addresses but no names

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What resolvers need: addresses

- For a resolver to do anything useful, it needs at least one address of one nameserver
- DELEG gives us a chance to add different types of delegation
- This is a proposal for an additional type of record, not removing the current types

Options in the current draft for the DELEG record

- **DIRECT** (always to below the delegated domain)
 - Name and addresses
 - Name with no addresses; resolver queries for A and AAAA
- **INCLUDE** (always to outside the delegated domain)
 - Name with no addresses; resolver queries for A and AAAA

Proposed additional option

- **DIRECT**
 - Addresses with no name
- The resolver doesn't need a name for **DIRECT** if it already knows the address, except possibly for secure transport
- If there is no secure transport, or if the secure transport has a certificate for its address, then the name is superfluous

Arguments in favor

- If we don't add this now, it is likely impossible to add it later
- It might never be used much, but it is a simple addition to the three already-agreed-to options
- Making up a fake name for an address can lead to errors

Arguments against

- It is not that hard to make up a unique random name for an address
 - 28511064239341730849.ns.example
- With the other three options, you can synthesize backwards from DELEG to classical style, but you can't with nameless addresses

Discuss

- ...with the general open mic