The RRtype for DELEG INCLUDE records

Paul Hoffman

IETF 123, Madrid
July 2025

Picking an RRtype for INCLUDE

- draft-ietf-deleg-01 says that when a resolver sees a DELEG record with the INCLUDE type, it sends a query for the target name with a type of SVCB to get the information for the delegated name's servers
- Some people have objected to the use of SVCB for chasing INCLUDE targets

SVCB for the delegated information

- Pro:
  - Has the same record format as the DELEG RR
  - Already known by DNS software
- Con:
  - Comes with all the same semantic differences that the DELEG RR has
  - Does chasing use _dns. or not?
  - Cannot express all the transports we want (such as Do53)

New RRtype for the delegated information

- Pro:
  - Having a new RRtype says exactly what the use is
  - If the DELEG WG decides not to base DELEG exactly on SVCB, we can still exactly match the semantics of DELEG
- Con:
  - One more new thing that DNS software has to know about
  - Bikeshedding the RRtype name will be tedious

When to choose

- After we are sure what the DELEG RRtype will use for format
- After we are sure what key=value items we want for the delegated nameserver information