# edns-key-tag

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### Memory Refresh

- Method by which validators can report their trust anchors (key tags) to zone operators
- Provide data to zone operators during KSK rollovers
- Modeled after RFC6975
  - Signaling DNSSEC algorithm support via EDNSO

#### When To Send

- Stub or Recursive
- Query only
- query type = DNSKEY
- SHOULD for configured trust anchor
- MAY for cached DS records
- MUST NOT otherwise

#### Since Last Time

- Adopted by dnsop wg
  - draft-ietf-dnsop-edns-key-tag-00
- Discussion on mailing list
  - draft-ietf-dnsop-edns-key-tag-01
- Changes
  - s/intersection/union/ for stub forwarding case

### Open Question: EDNS0 vs qname

- Should Key Tags be sent as EDNS option?
- Or "normal" query in qname?

### **EDNSO** Encoding

edns-key-tag option

option length

key tag #1

[key tag #2]

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- Piggybacks on regular DNSKEY query
- obfuscated in OPT\_RR?
- New option code hinders adoption?

## EDNS0 Encoding - forwarding

eans-key-tag option
option length
key tag #1
[key tag #2]
edns-key-tag option
option length

client key tag #1

- Piggybacks on regular DNSKEY query
- obfuscated in OPT\_RR?
- New option code hinders adoption?

#### **Qname Encoding**

- Separate query
- Mark Andrews Approved™
- qname = \_ta-xxxx.<domain>
- e.g. for root: \_ta-4a5c
- qtype = NULL
- mulitple key tags

```
_ta-xxxx,xxxx,xxxx.<domain>
```