

draft-bellis-dnsopext-multi-qtypes-02

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Design Considerations

- Many parsers will generate FORMERR (or other errors) if QDCOUNT > 1
- There's only one RCODE field, but with multiple QNAMEs the answers might give different results (e.g. NOERROR vs NXDOMAIN)
- EDNS RDATA can't be compressed (or can it?)

Proposed Design

- Limit questions to be for all the same QNAME (QDCOUNT == 1)
- Pack a list of additional QTYPE fields into an EDNS0 RR
- The corresponding list in the Response EDNS RR distinguishes between NODATA and "I don't have that data (yet)"
- If the option is ignored the packets behave just like a normal query for the primary QTYPE

Outstanding Design Questions

- What about the AA bit? Only a problem for NS/DS ?
 - Does it matter ?
- OPT format may need a little cleaning up
 - QTCOUNT field probably unnecessary, although it does constrain the list size



Any Questions?