DNSSEC Roadblock Avoidance

Status, Next Steps
Has Running Code (multiple versions)

Does it have Rough Consensus?

One outstanding item from authors:
(from 1 July)

We explicitly punt on explaining how to overcome the situation when a ‘proxy/forwarder’ “randomly” sends queries to Resolvers with different capabilities.

(Petr’s words w/out the IPR baggage?)
Running Code Example
The recursive resolver needs to be DNSSEC-Aware. There are many middle boxes and others that are not.

draft-ietf-dnsop-dnssec-roadblock-avoidance
Results for 208.67.222.222:

Query for alg-8-nsec3.dnssec-test.org returned answers: 1
Query for alg-8-nsec3.dnssec-test.org did not have an secure answer: 1
Query for realy-doesnotexist.dnssec-test.org. did not return answers: 2
Query for realy-doesnotexist.dnssec-test.org. was not secure: 2
Query for dnssec-failed.org returned answers: 2
rcode for dnssec-failed.org was not SERVFAIL: 2
Query for alg-13-nsec3.dnssec-test.org returned answers: 3
Query for alg-13-nsec3.dnssec-test.org did not have an secure answer: 3

dnssec data for answers  dnssec data for non existence

no dnssec data  validating

Also try:
DNS Advantage 156.154.70.1  156.154.71.1
Dyn Internet Guide 216.146.35.35  216.146.36.36
Google 8.8.8.8  8.8.4.4
Level 3 209.244.0.3  209.244.0.4
OpenDNS Home 208.67.222.222  208.67.220.220
Verisign 64.6.64.6  64.6.65.6
Roadblock

```
$ ./getdns_query -s 208.67.222.222_443_tcp.getdnsapi.net TLSA +dnssec_return_only_secure
SYNC response:
{
  "answer_type": GETDNS_NAMETYPE_DNS,
  "replies_full": [],
  "replies_tree": [],
  "status": GETDNS_RESPSTATUS_ALL_BOGUS_ANSWERS
}
$
```

```
root@bonobo:~ 107x19

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on wlan0, link-type EN10MB (Ethernet), capture size 262144 bytes
13:37:26.472680 IP 133.93.33.101.52794 > 133.93.5.6.53: 12289+ [1au] Type52? _443_tcp.getdnsapi.net. (52)
13:37:26.480307 IP 133.93.5.6.53 > 133.93.33.101.52794: 12289 3/4/9 Type52, Type52, RRSIG (1053)
13:37:26.491535 IP 133.93.5.6.53 > 133.93.33.101.49994: 54826$ 3/0/1 DNSSKEY, DNSSKEY, RRSIG (736)
13:37:26.491593 IP 133.93.5.6.53 > 133.93.33.101.59537: 9457$ 3/0/1 DNSSKEY, DNSSKEY, RRSIG (767)
13:37:26.493733 IP 133.93.33.101.35434 > 133.93.5.6.53: 18876$ 2/0/1 DS, RRSIG (241)
13:37:26.496656 IP 133.93.5.6.53 > 133.93.33.101.41289: 9629$ 3/0/1 DNSSKEY, DNSSKEY, RRSIG (743)
13:37:26.497810 IP 133.93.5.6.53 > 133.93.33.101.47624: 56937$ 2/0/1 DS, RRSIG (239)
```