M5: Recursive Resolver Integrity

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Metric	Current	Average
M5.1 (% alignment of cache time to SOA TTL)	*	*
M5.2 (% auto cache refresh)	*	*
M5.3 (% EDNS0 DO query rate)	*	*
M5.4 (%DNSSEC Validation rate)	*	*
M5.5 (Distribution of resolver use)	*	*

* M5 is being developed – no measurements are available as yet

M5.1 alignment of cache time to SOA TTL

- Work in progress
- Measure the % of visible recursive resolvers that refresh their local cache in accordance with the time specified in the SOA TTL
- Measure % of resolvers that stretch and compress the cache lifetime

M5.2 auto cache refresh

- Work in progress
- Measure the % of visible recursive resolvers that refresh their local cache automatically (without a triggering user query)
- Measure the estimated query load % due to automated cache refresh

M5.3 EDNS(0) DO Query Rate

- Work in progress
- Measure the % of visible recursive resolvers that set the DO (DNSSEC OK) bit in their queries

M5.4 DNSSEC Validation Rate

- Work in progress
- Measure the % of visible recursive resolvers that perform DNSSEC validation of responses

M5.5 Resolver-Client Distribution

- Work in progress
- Provide a distribution of the estimated client size of the 10,000 largest visible recursive resolvers