Introduction of DNS test suite

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TAHI Project

Goal

- The specification is clarified.
- The interoperability can be done more.

Activity

- ☐ Write test specification based on RFCs
    - ■ Server and Client
    - ■ If we have a question about spec, then we have been asked IETF or bind mailing list.
- ☐ Developing Test Tool
    - ■ Server and Client

DNS test coverage

- ☐ **Basic**
    - ■ RFC1034 DOMAIN NAMES - CONCEPTS AND FACILITIESRFC1035DOMAIN NAMES - IMPLEMENTATION AND SPECIFICATIONRFC
    - ■ RFC1123 Requirements for Internet Hosts -- Application and Support
    - ■ RFC1995 Incremental Zone Transfer in DNS
    - ■ RFC1996 A Mechanism for Prompt Notification of Zone Changes (DNS NOTIFY)
    - ■ RFC2131 Clarifications to the DNS Specification
    - ■ RFC2308 Negative Caching of DNS Queries (DNS NCACHE)RFC3425Obsoleting IQUERY

DNS test coverage

☐ **Extension**

- ■ RFC2671 Extension Mechanisms for DNS (EDNS0)RFC2782A DNS RR for specifying the location of services (DNS SRV)
- ■ RFC3401 Dynamic Delegation Discovery System (DDDS) Part One: The Comprehensive DDDS
- ■ RFC3402 Dynamic Delegation Discovery System (DDDS) Part Two: The Algorithm
- ■ RFC3403 Dynamic Delegation Discovery System (DDDS) Part Three: The Domain Name System (DNS) Database
- ■ RFC3404 Dynamic Delegation Discovery System (DDDS) Part Four: The Uniform Resource Identifiers (URI)
  Resolution ApplicationRFC3405Dynamic Delegation Discovery System (DDDS)
  Part Five: URI.ARPA Assignment Procedures
- ■ RFC3596 DNS Extensions to Support IP Version 6
- ■ RFC4033 Security Introduction and Requirements
- ■ RFC4034 Resource Records for the DNS Security Extensions
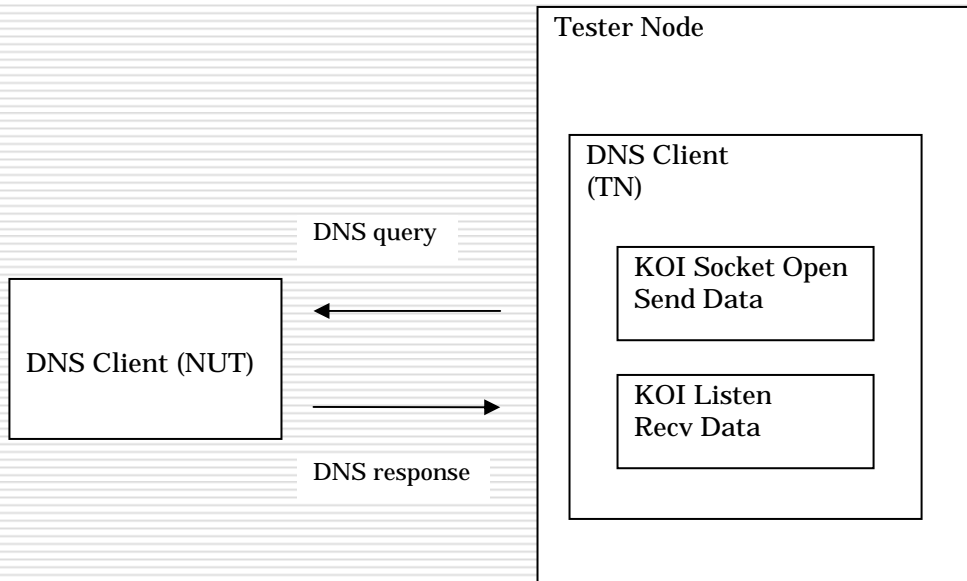- ■ RFC4035 Protocol Modifications for the DNS Security Extensions

Conformance test tool

- ☐ Platform
  - ■ KOI
- ☐ Test Scripts
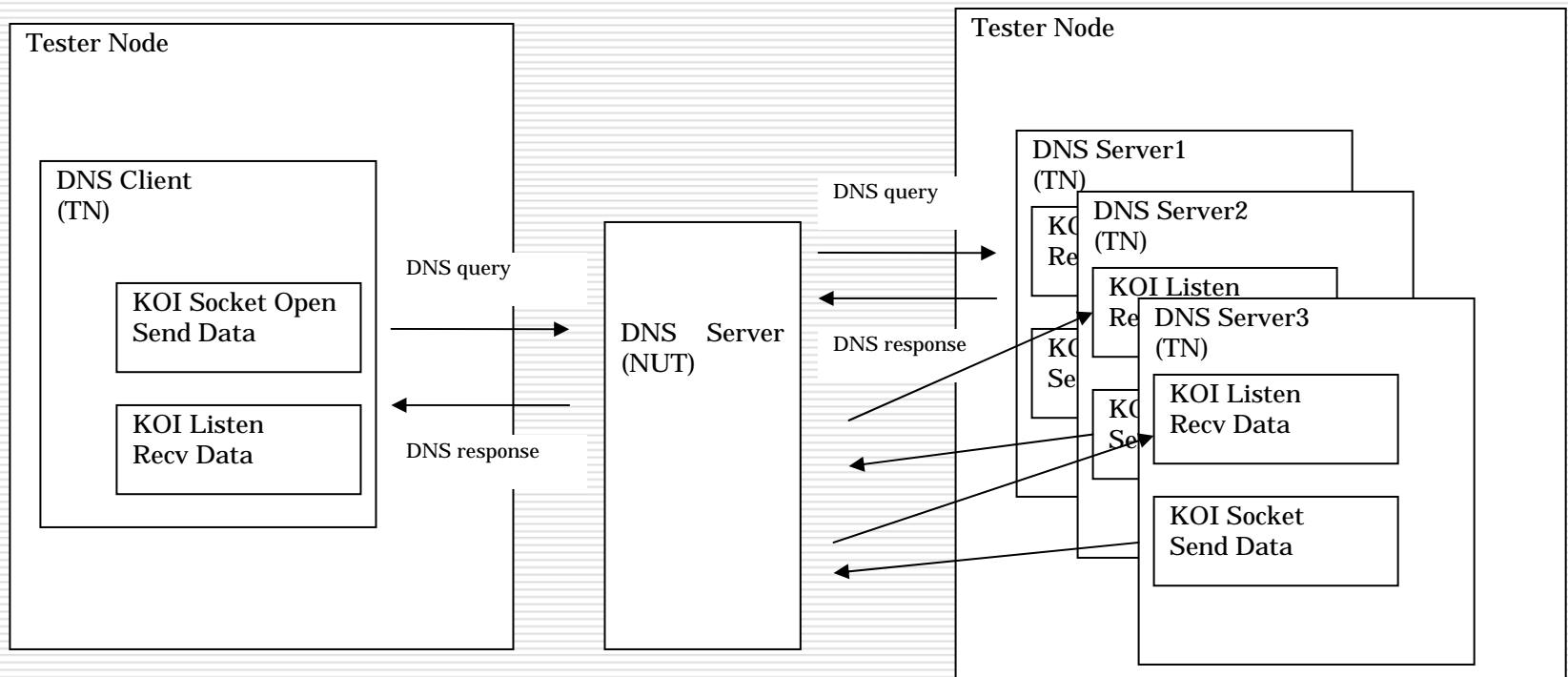 - ■ Perl
  - ■ Text Format

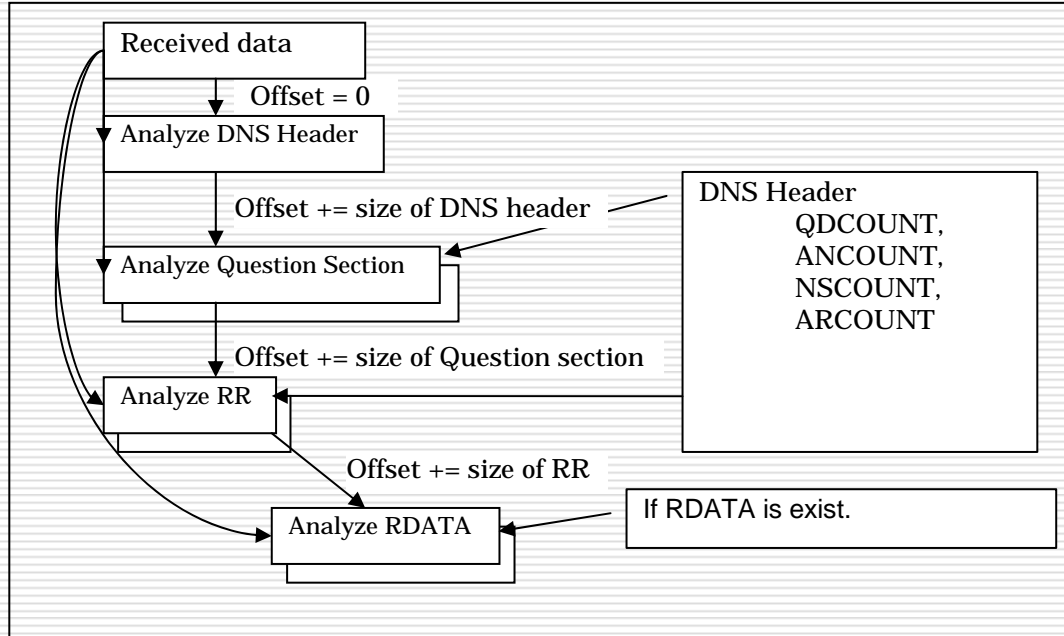# Basic Transaction

☐ Client test case

Basic Transaction

☐ Sever test case

Data Analyze

Information

- ☐ We will soon release new version.
- ☐ You can download freely.
  - ■ http://www.tahi.org/dns/
- ☐ Please give a comment.
- ☐ Discussion point
  - ■ dnstest@tahi.org
  - ■ Please subscribe

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