# Report on TAHI DNS conformance test tool

64th IETF@Vancouver

Nobumichi Ozoe@Yokogawa Electric Corporation
TAHI Project

# CONT.

- ☐ Testing Report
- ☐ Test Tool Status
- ☐ Schedule

# Testing Report

# Testing Report

- 6th ETSI IPv6 Plugtests
  - Associated with the 7th TAHI IPv6 Interoperability Test Event
  - 17 - 21 October 2005, ETSI - Sophia Antipolis, France
  - We have tested one DNS client using conformance test tool.
    http://www.etsi.org/plugtests/History/2005IPV6.htm

# Testing Report

- ☐ Found some bugs in
    - ■ Client implementation
    - ■ Test tool
- ☐ As far as we tested, we didn't find any issue about DNS basic specifications
    - ■ Please check our web site about details. http://www.tahi.org/dns/

# Test Tool Status

# Released DNS conformance test tool

- TAHI project has released DNS test tool version 0.1.
    - 1st November 2005
    - You can download it freely!!
    - Please check our web site.
- Current coverage
    - Client function
    - Basic/Extension function
        - More on this later slide.
    - TCP/UDP
    - Over IPv4 transport

# Features to be included in next release

- ☐ Server function
- ☐ More additional Basic/Extension function
- ☐ Over IPv6 transport

# Test Coverage

□ Basic function

| RFC1034 | DOMAIN NAMES - CONCEPTS AND FACILITIES |
|---------|----------------------------------------|
| RFC1035 | DOMAIN NAMES - IMPLEMENTATION AND SPECIFICATION |
| RFC1123 | Requirements for Internet Hosts -- Application and Support |
| RFC2131 | Clarifications to the DNS Specification |
| RFC2308 | Negative Caching of DNS Queries (DNS NCACHE) |
| RFC3425 | Obsoleting IQUERY |
| RFC1995 | Incremental Zone Transfer in DNS |
| RFC1996 | A Mechanism for Prompt Notification of Zone Changes (DNS NOTIFY) |

| | |
|---|---|
| | Regarding client tester green color is supported. |
| | Regarding client tester blue color will be supported. |

Regarding server tester all of them will be supported.

# Test Coverage

## ☐ Extension function

| RFC3596 | DNS Extensions to Support IP Version 6 |
|---|---|
| RFC2671 | Extension Mechanisms for DNS (EDNS0) |
| RFC2782 | A DNS RR for specifying the location of services (DNS SRV) |
| RFC3401 – 3405 | Dynamic Delegation Discovery System (DDDS) |

|  |  |
|---|---|
|  | Regarding client tester green color is supported. |
|  | Regarding client tester blue color will be supported. |
| Regarding server tester all of them will be supported. | |

Please refer our web site about detail.

# Schedule

# Schedule

| | Oct | Nov | Dec | Jan | Feb | May | Apr |
|---|---|---|---|---|---|---|---|
| Test Tool | | 1st **Ver0.1** ▽ | | After test event **Newer version** ▽ | | | 4/E **Ver1.0** ▽ |
| Test Event | 17 – 21 6th ETSI IPv6 Plugtests ▽ ▽ | | | 23-27th **The 8th TAHI test event.** ▽ ▽ | | | |

☐ The 8th TAHI test event
- Next January at Makuhari, Chiba, Japan
- Please check http://www.tahi.org/

# Let's discuss

- ☐ Mailing list dnstest@tahi.org
  - ■ Please subscribe to dnstest-ctl@tahi.org
- ☐ Any question and feedback are welcome.

# See you next TAHI test event!!