Report on TAH1 DHCPv6 conformance testing tool

64th IETF@Vancouver

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TAHI Project
What's TAHI
Event Report
Tester Status
Discussion
What's TAHII
TAHI Project

- TAHI Project is developing and providing test suites for IPv6.
  - You can get and use them freely!!

- Activity
  - Developing conformance test tool
    - e.g. IPv6 core protocol, IPsec, MIPv6, etc...
  - Holding interoperability test event
    - Every year
    - Usually at Japan
Event Report
Test report on 6\textsuperscript{th} ETSI Plugtests / 7\textsuperscript{th} TAHI (17\textsuperscript{th} – 21\textsuperscript{th} October, 2005, Sophia Antipolis, France) (1/2)

- Conformance Test
  - Tester status
    - Supported only DUID-LLT as DUID
  - One Client was tested.
  - Found one issue
Issue

- DUID-LL/DUID-LLT (hardware type =1)
  - Client used over 48 bits length as link-layer address field.
  - Already solved
    - Should be 48 bits as link-layer address

Thanks Ted Lemon & Bernie Volz!!
New release of TAHI DHCPv6 Test Tool

- TAHI Project released DHCPv6 Test Tool version 0.1.1 (Nov, 2nd, 2005)!!
  - without functions related to “Authentication”.

- Test Target
  - Server
  - Relay Agent
  - Client

Virtual Test Topology

08/11/2005
## Test Coverage

<table>
<thead>
<tr>
<th>RFC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFC3315</td>
<td>Dynamic Host Configuration Protocol for IPv6 (DHCPv6)</td>
</tr>
<tr>
<td>RFC3633</td>
<td>IPv6 Prefix Options for Dynamic Host Configuration Protocol (DHCP) version 6</td>
</tr>
<tr>
<td>RFC3646</td>
<td>DNS Configuration options for Dynamic Host Configuration Protocol for IPv6 (DHCPv6)</td>
</tr>
<tr>
<td>RFC3736</td>
<td>Stateless Dynamic Host Configuration Protocol (DHCP) Service for IPv6</td>
</tr>
</tbody>
</table>

*without functions related to “Authentication”.*
Discussion
Let’s use and discuss!!

- Test specification

- Test tool
  - You can download Test Tool freely!!

- Mailing list for discussion
  - Discussion : dhcptest@tahi.org
  - Subscribe to : dhcp-ctl@tahi.org
  - Your comments to improve test tool and specification are welcome!!
  - Your feedback is welcome.
Big chance!!!

8th TAHI Test event is scheduled.

- Date: 23rd – 27th January, 2006
- Place: Makuhari, Chiba, Japan
- URL: http://www.tahi.org/

Please join our event and let’s discuss deeply!

- It is very useful to improve your implementation, our test tool and both knowledge!!
See you next TAHIL event !!

END