Update:
Report of ALTO-Like Experiments in Japan
draft-kamei-p2p-experiments-japan-05

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Overview

- An experiment to reduce P2P traffic effectively held in Japan from 2008 to 2010
- Cooperation with 20+ ISPs, 6 P2P application vendors and 10+ content providers
  - Geographic information is taken into consideration for inter ISP.
- 2 technologies are introduced:
  - Hint Sever
    - suggest appropriate peer nodes
  - Dummy nodes
    - Measure P2P traffic without modification P2P applications
Overview

- Confirmed ALTO-like approach is effective
  - inter-ISP
  - multi P2P applications

![Graphs showing select same ISPs with and without Hint Server from P2P client in OCN]
Changes in this version (1)

• Contents is almost same as the previous version for the part of description of experiment as of 2008
  o some document structure and sentences were brushed up

• Added the current experiment status
  o The experiment continues until FY2010 (Mar 2011)
  o The protocol is replaced with alto.(*-alto-protocol-07)
    ▪ mainly use "Endpoint Cost Service"
    ▪ all other "required" services for compatibility.

• Analysis is more precisely
  o Clarify operation issues for hierarchical ALTO servers, and importance for measurement.
Changes in this version (2)

- ALTO servers are put both private and public site and used simultaneously in this experiment.
  - There were no modifications in alto specification are needed to apply it.

![Diagram showing network flow between servers and clients.]
Changes in this version (3)

- The methods to generate ALTO databases were changed
  - 2008-2009 BGP data + GeoIP
  - 2010 add 2 more major ISP's BGP data