IRTF SAM RG Agenda
IETF 80
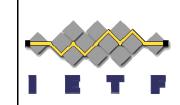
Chairs:

John Buford, Avaya Labs Research

Thomas Schmidt, HAW Hamburg

Scalable Adaptive Multicast RG

The Scalable Adaptive Multicast (SAM) Research Group is chartered to explore and research techniques which improve multicast performance with respect to dimensions such as number of groups, dynamics of group membership, dynamics of the network topology, and network resource constraints. The RG will investigate approaches based on application layer multicast (ALM), overlay multicast (OM), and native IP multicast, as well as hybrid approaches.

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Thursday, March 31, 2011, 1300 - 1500

1. Introduction, Agenda - Chairs (5 min)

2. A Common API for Transparent Hybrid Multicast - Update
   draft-irtf-samrg-common-api-01   Matthias Wählisch (15 min)

3. HAMcast - An Implementation of a System-centric Middleware Component for
   Universal Multicast   Sebastian Meiling (20 min)

4. Application Layer Multicast Extensions to RELOAD
   draft-kolberg-sam-baseline-protocol   Mario Kohlberg (15 min)

5. Labelcast Protocol – Update   Whang Hui (15 min)
   draft-sunzhigang-sam-labelcast-01

6. P2MP Streaming Media Delivery PS   Tao Li (15 min)

7. Shared resources in RELOAD as a primitive for coordinating group
   communication   Gabriel Hege (15 min)
   draft-knauf-p2psip-share-00

8. Document Status & Future Work - Chairs (15 min)

9. 2011/12 Meeting Schedule

Document Status

RG Documents:

- A Common API for Transparent Hybrid Multicast
  draft-irtf-samrg-common-api-01

- Application Layer Multicast Extensions to RELOAD
  draft-kolberg-sam-baseline-protocol-01

Currently active documents:

- Multiparty Transport Overlay Control Protocol (MTOCP)
  draft-kellil-sam-mtocp-01

- Labelcast Protocol
  draft-sunzhigang-sam-labelcast

- P2MP Streaming Media Delivery PS
  draft-litao-p2mpsmd-problem-statement-00

- XCAST v2.0 ??

SAM Topics – today & tomorrow

- Current work:
  Make multicast/group comm. efficiently available
  - Common API
  - Hybrid deployment scenarios
  - Testbed & experimental reference scenarios

- Possible future research issues:
  1. Hybrid address translation
  2. Large-scale tree optimizations (P2P-Streaming, Alto …) & group experiments
  3. Interoperable multicast distribution in CDNs
  4. Multicast services by cloud deployment
  5. Distributed rendezvous processes
  6. Security: lightweight authentication mechanisms

2011 Meeting Schedule

IETF 81 Quebec City, July 24-29   – Yes

IETF 82 Taipei, November 13 - 18   – Yes