

IRTF SAM RG Agenda IETF 81

Chairs:

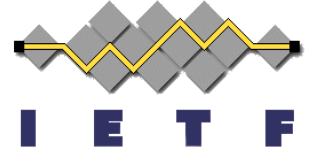
John Buford, Avaya Labs Research

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.

Note Well



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Thursday, July 28, 2011, 1740 - 1940

1. Introduction, Agenda - Chairs (5 min)
2. A Common API for Transparent Hybrid Multicast - Update
draft-irtf-samrg-common-api-03 Matthias Wählisch (15 min)
3. Implementation report: Release of the System-centric Middleware Component
for Universal Multicast -Universal Multicast Matthias Wählisch (20 min)
4. Application Layer Multicast Extensions to RELOAD
draft-kolberg-sam-baseline-protocol John Buford (20 min)
5. Problem Statement: Streaming Media Delivery
draft-litao-p2mpsmd-problem-statement-01 Tao Li (20 min)
6. Labelcast Protocol – Update
draft-sunzhigang-sam-labelcast-02 Zhigang Su (20 min)
7. Document Status & Future Work - Chairs (15 min)

Document Status

RG Documents:

- A Common API for Transparent Hybrid Multicast
draft-irtf-samrg-common-api-03
- Application Layer Multicast Extensions to RELOAD
draft-kolberg-sam-baseline-protocol-01

Currently active documents:

- Labelcast Protocol
draft-sunzhigang-sam-labelcast
- P2MP Streaming Media Delivery PS
draft-litao-p2mpsmd-problem-statement
- XCAST v2.0 ??

SAM Topics – today & tomorrow

- Current work:
Make multicast/group comm. efficiently available
 - Common API
 - Hybrid deployment scenarios
 - Testbed & experimental reference scenarios
- Future research directions:
 1. Interoperability with content distribution in CDNs
 - Uniform content access/consumer-driven traffic optimization
 2. Security: lightweight group authentication mechanisms
 - The “sec-credentials” in the Common API
 3. Relationship to CCN/ICN
 4. Mobility-related vertical handovers (from IP to OLM ...)
 5. +++

2011 Meeting Schedule

IETF 82 Taipei, November 13 - 18

IEEE Globecom – PerGroup WS, Dec. 9