A Common API for Transparent Hybrid Multicast
(draft-waehlisch-sam-common-api)

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Problem Statement

- No common programming for IPv4/v6 multicast
  - IP addresses are used directly
- Different multicast flavours around that require different addressing

Objectives:

1. Enable any application programmer to implement independent of underlying delivery mechanisms
2. Make applications efficient, but robust w.r.t. deployment aspects
Name (URI) based Multicast Sockets

Requirements:

- Naming scheme that covers mcast flavors & technologies
  - DNS name is insufficient
- Group authentication support
  - Admission control needed to prevent DDoS

Meta data approach: URI

- scheme "://" group "@" instantiation ":"
  port "/" sec-credentials
- Example: sip://cnn@news-RELOAD.org:5000/groupkey