

A Common API for Transparent Hybrid Multicast

(draft-waehlich-sam-common-api)

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Problem Statement

- o No common programming for IPv4/v6 multicast
 - IP addresses are used directly
- o 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:

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

Meta data approach: URI

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