Common API for Transparent Hybrid Multicast - Status Update –

`draft-irtf-samrg-common-api-01`

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History of the Draft

o Version 00/01 presented at IETF 76, Hiroshima

o Update version 02 presented at IETF 77, Anaheim

o Update version 04 presented IETF 78, Maastricht

o Updates presented IETF 79, Beijing

- No version 05 – wait for NBS BoF

o Adopted as WG document @ Beijing

o Update version 05 submitted January 2011

o Update version 06 submitted March 2011

o First WG draft March 2011: draft-irtf-samrg-common-api

Status of the Draft:
Changes from last presentation

o Several editorial improvements

o Description of Common API uses pseudo code now

- C signatures moved to appendix

o destroySocket renamed as deleteMSocket

o Notification of sender changes introduced

o Extension of update calls and functions replaced by event model

Extended Change Notification

Motivation:

o Simplify programming

Previous API versions:

o Informs application only about changes of receiver and sender

o Programmer had to use Service Calls to identify details

Current API version:

o Gives detailed information about type of change by events

New Data Structures and Functions

o `event_type {`
    `join_event,`
    `leave_event,`
    `new_source_event`
  `};`

o `event {`
    `event_type event,`
    `Uri group_name`
  `};`

o `enableEvents();` **and** `disableEvents();`

Mapping

o This draft will not cover the general problem of multicast address mapping

- Too many aspects

o General discussions:
IPv4-IPv6 Multicast Translation BoF

o Draft will provide guidance for *canonical* mapping

- Map IPv4 into IPv6 address space, for example

- Example: ip://224.1.2.3:5000 mapped to "224.1.2.3 UDP port 5000" or "ff0e::224.1.2.3 UDP port 5000"

o Update will be included into version 02

Thank you …

o Please, read the current version

o Interest in the implementation project?

- Listen to the next talk ;)

o More feedback is needed by RG members!