Internet Media Guides

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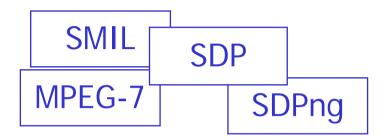
IMG Framework and Requirements

- Status is "AD Evaluation" on Nov.5
- Problems?

New IETF IMG Components Needed

Media/content descriptions and other associated metadata

Data model



Maintenance, Encapsulation

IMG Transfer Envelope

Transport Protocol

IMG Multicast Delivery Method IMG Subscribe/ Notify Method

L2 etc.



IMG Unicast Subscribe & Notify Mechanism

- Groundwork already an individual ID
 - draft-nomura-mmusic-img-notify-00
- HTTP does not meet the IMG requirements
 - Always-on sessions & polling do not scale (# of users & data quantity)
 - Need an update notification mechanism
- Working assumption is to base on SIP Event Notification
 - Already has SUBSCRIBE and NOTIFY functionality
 - Good candidate for update notification
 - Need to standardize "Event Package" for IMG
 - Need "Envelope" to make IMG metadata delivery maintainable
- Proposed Transport Area charter item (MMUSIC/SIPPING)

IMG Transfer Envelope

- Groundwork already an individual ID
 - draft-walsh-mmusic-img-envelope-01
- Need to provide a common minimal set of information to manage transfers of IMG information
 - Independent of delivered IMG Metadata & of IMG Transport Protocol
 - Identify, Version & Validity/expiry time of "a block of" IMG metadata
- Working assumption to use XML definition
 - Embedded: A wrapper encapsulating an IMG metadata
 - Referenced: A separate object referencing the IMG metadata
- Proposed MMUSIC charter item

Multicast Transport Protocol

- Groundwork already an individual ID
- It was expired, but will be submitted

Open Issues

■ IMG URI

```
img://...
```

- IMG Encapsulation
 - ■MIME type in IMG Transport Protocols application/envelope+xml
 - Versioning, Delta description
 - a. IMG Envelope
 - b. Header extension of transport protocols Allow both methods? Or not?