SDP URL Scheme

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Motivation

+ Want to start applications for a multimedia
   session just clicking on a web

+ Using MIME type "Application/sdp"
   requires one more access to a web server

-> Define SDP URL

SDP URL and Examples

- sdp://[<address> [:ttl=<ttl>] [:noa=<noa>]] /
  [<sessionname>]
  [#<type>=<value> *[&<type>=<value>]]

- sdp://224.192.2.3:ttl=16/sdp+test
  #m=audio+10000+RTP-AVP+0

- sdp://224.192.2.3:ttl=16/sdp+test
  #t=2873397496+2873404696&a=recvonly
  &m=audio+10000+RTP-AVP+0
  &m=video+10002+RTP-AVP+31
  &a=framerate:10

Summary of ML Discussions (1)

+ Use "data" URL

-> This is as bad as defining Application/ftp
   type and using
   "data:application/ftp,dest=ftp.kyoto-u.ac.jp..."
   to do FTP, where the file format is
   "dest=ftp.media.kyoto-u.ac.jp
    dir=pub/RFC
    file=rfc-index.txt"

Summary of ML Discussions (2)

+ Use a MIME type, indirection is useful

-> A user fetches the web page every time
   starting a new session. When the page
   is cached, a user have to reload it.
   But this is inevitable when accessing webs.

Summary of ML Discussions (3)

+ URLs are pointers to values, don't encode
  the actual value inside the pointer

-> Yes, media data streams are values,
   while the information described by SDP
   is a pointer, so URL "http://.../test.sdp"
   is a pointer to a pointer

-> Note that the information except one
   required for media applications can be
   written in a free format in a Web page.
   You can place the host of the session,
   his/her e-mail address, the purpose of the
   session, and so on.

Summary of ML Discussions (4)

+ RTP URL could make sense

-> Selected SDP URL for handling multiple
   streams at the same time

-> I don't necessarily insist on
   the URL name "sdp:"

The way to go is ...

+ A new URL is unnecessary because of
  a MIME type or a MIME type with
  "data" URL

+ Define a URL with name "sdp:"

+ Define a URL with another name,
  "rtp:", "stream:", "sesseion:", ...