Framework for IPv4/IPv6 Multicast Translation

draft-venaas-behave-v4v6mc-framework-01.txt
Changes since 00

• Two new co-authors
• Expanded text on addressing and how translation works
• Text on SDP files and DNS
  – SDP is the most common way to specify which multicast groups to join
  – It might be helpful to translation if we could specify a domain name instead of a literal address
  – Just like it is helpful to use DNS instead of literals for unicast
SDP example

v=0
o=mhandley 2890844526 2890842807 IN IP4 126.16.64.4
s=SDP Seminar=A Seminar on the session description protocol
u=http://www.cs.ucl.ac.uk/staff/M.Handley/sdp.03.ps
e=mjh@isi.edu (Mark Handley)
c=IN IP4 224.2.17.12/127
t=2873397496 2873404696
a=recvonly
m=audio 49170 RTP/AVP 0
m=video 51372 RTP/AVP 31
m=application 32416 udp wb
a=orient:portrait
SDP files and DNS

• The multicast address to use is in this case specified as
  \texttt{c=IN IP4 224.2.17.12/127}

• Applications are also supposed to handle DNS, not clear whether all do. This would become say
  \texttt{c=IN IP4 mc.example.com/127}

• We have a problem, IPv4/IPv6 is hardcoded

• Name is expected to resolve to a name of the specified family

• If names of multiple families are returned, one should use the specified one

• Need to translate SDP
  – Either ALG or in application