

Address Acquisition

Address Acquisition For Multicast Content When
Source and Receiver
Support Differing IP Versions

draft-tsou-mboned-multtrans-addr-acquisition-01

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The Problem

- Receiver needs the multicast group (and possibly source) addresses before it can request a program.
- Program guide information containing the addresses may be prepared by the serving operator or by a content provider.
- If receiver is not dual stack, it may receive the addresses in a version it does not support.

The Problem cont'd

- Interim meeting on multicast transition spent much time on question of whether the IETF could standardize means of delivery of program guide information (especially transport).
- Subsequent inquiry indicates no operator interest.
 - distribution is by proprietary means.
- IETF can contribute ideas and refer to protocols for operators to consider (e.g., PGM for reliable distribution, SDP and SAP for conveyance of the information).

Possible Solutions

Three categories of solutions are identified.

Reactive: Receiver recognizes that received addresses are in the wrong version and converts them through a request to a mapping function or using an in-built algorithm and accompanying configuration

Dynamic modification: The network intercepts the access information and modifies it as necessary to meet the requirements of the receiver

Administrative: The electronic program guide is modified in advance of its acquisition by the receiver to provide alternative address versions.

Ideas For Further Development

1. Reorganize according to operator scenario
 - Receivers can or cannot be changed
 - Program guide supplied by operator vs. content provider
2. Other ideas?