



New Approach In Multimedia Conferencing System By Using Ipv6 Multicast

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In these IPv6 secure multicast conferencing systems, there is a set of conferencing clients that can send and receive audio/video data, and a GCKS (Group Controller Key Server) that can manage multicast group. The main problem in such a system is the management and distribution of the keying data including rekeying when a user leaves the multicast group. Standardization of structure and keying data exchange for secure multicast by IETF Multicast Security Working Group (MSEC). Multicast listener discovery (MLD) protocols are employed by IPv6 routers and hosts for group management. The need for multimedia based application in IPv6 is further supported with the use of IPv6 in 3G implementation. Even though a lot of conferencing systems This paper introduces a new system model of enabling the Multimedia Conferencing System (MCS) to send a multicast traffic based on IPv6. Currently, the above mentioned system is using a unicast approach to distribute the multimedia elements in an IPv4-based network. Moreover, this study covers the proposed system architecture as well as the expected performance gain for transforming the current system from IPv4 to IPv6 by taking into account the advantages of IPv6 such as the multicast. Expected results shows that moving the current system to run on IPv6 will dramatically reduce the network tr

Multicast Approach.

- Nodes can join a multicast group
- Denoted by a multicast IP address
- Routers build a routing topology.
- Link state vs. distance vector.
- IGMP: Internet Group Management Protocol.
- Protocol for hosts to manage membership in multicast groups.
- Hosts talk to local multicast routers. Example: Link State Tree.
- Routers exchange link state
- Node advertise presence in group
- Routers compute shortest-path multicast tree
- Very expensive! Network Topology. B.
- Multicast protocols end up being very complex
- Introduce a lot of router state
- Turned off on most routers
- Used within a domain, not between domains
- How does one handle congestion control? Anycast.
- Communicate with any one of a set of nodes.

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The setsockopt way to select an interface for the outgoing traffic with IPv4 is `IP_MULTICAST_IF`, which accepts two arguments. From the `ip(4)` manual page: Set the local device for a multicast socket. The argument for `setsockopt(2)` is an `ip_mreqn` or (since Linux 3.5) `ip_mreq` structure similar to `IP_ADD_MEMBERSHIP`, or an `in_addr` structure. When trying to do the analogous operation with IPv6 traffic, the option changes to an interface index. From the `ipv6(4)` manual page: Set the device for outgoing multicast packets on the socket. Even though a lot of conferencing systems available for current use, there are very few that supports IPv6. This paper discusses the design for multimedia (audio and video) streaming in IPv6 using point to point and multicast technology. The main topic in this paper is socket level programming that has been defined in the API. Keywords. Video Packet IPv6 Address Conferencing System Multicast Packet Multimedia Streaming. These keywords were added by machine and not by the authors. This process is experimental and the keywords may be updated as the learning algorithm improves. This is a preview