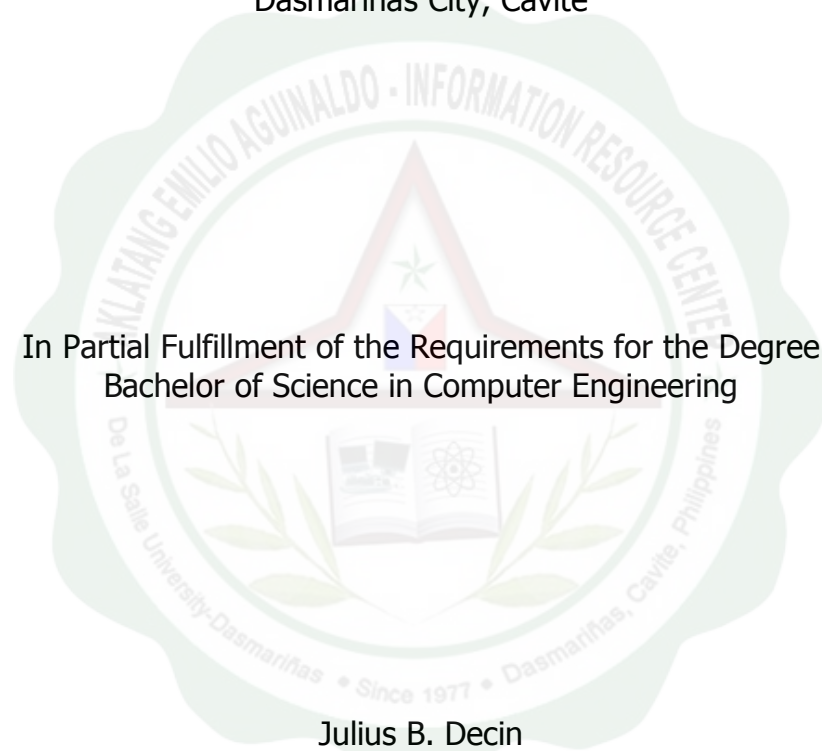


IP Multicast Gateway for Live Audio/Video Streaming in Access Layer

A Thesis Presented to the Faculty of Engineering
College of Engineering, Architecture and Technology
De La Salle University –Dasmariñas
Dasmariñas City, Cavite

In Partial Fulfillment of the Requirements for the Degree
Bachelor of Science in Computer Engineering



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March, 2015

ABSTRACT

The implementation of IP multicast in laptops, smart phones, and tablets enable more efficiency in video broadcasting by giving multicast address to a certain hosts connected to a multicast-ready router. With the use of multicast transmission, hosts who share common data can receive it faster because multicast only uses one data line to send all information since multicast concept is one-to-many. Unlike in the present situation, routers are configured to send its data using unicast transmission. Regardless whether its hosts are sharing only one specific type of file, routers still communicate using unicast transmission making the connections slower due to its redundant data transmission. The "IP Multicast Gateway for Live Audio/Video Streaming in Access Layer" can be one solution to bandwidth allocation. Since the Internet uses unicast transmission by default though multicast capability is enabled in many routers, the gateway only need to send it to multicast packets to the hosts who connects to a certain multicast IP address that streams the video. Thus, by implementing the use of an "IP Multicast Gateway for Live Audio/Video Streaming in Access Layer", a solution to bandwidth allocation can be improved since it only takes one allocation for video streaming but forwarded to more hosts.

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