

32. CLOUD BASED MOBILE STREAMING OVER MULTIPLE WIRELESS ACCESS NETWORKS USING DASH

N.Vijayarevathy¹ A. Arul Prasath²

M.E Computer Science and Engineering, Assistant Professor

Arunai College of Engineering, Tiruvannamalai

Email: kokila28@gmail.com Email: arul.infotec@gmail.com

Cloud multimedia services provide a capable, flexible and scalable data processing method and offer an elucidation for the user demands of high quality and diversified multimedia application. The major video platforms, such as YouTube and Amazon, have good management styles and provide users to share multimedia videos easily with diversified services. Users will always expect powerful, sound and stable functions for such services. Considering limited bandwidth available for mobile streaming and different device requirements, this study presents a network and device-aware Quality of Services (QoS) approach that provides multimedia data suitable for a workstation unit environment via interactive mobile streaming services, further considering the overall network environment and adjusting the interactive transmission frequency, multimedia trans-coding and map-reduce concept to avoid the waste of bandwidth (BW) and terminal power. To validate the probability of the proposed method. It provides efficient, self-adaptive multimedia streaming services for varying Bandwidth (BW) environment.

Index Terms—DASH, Video Streaming, Cloud Computing, QoS, Map Reduce.

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