Measuring the Quality of Experience of Mobile Video Streaming

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Abstract. In recent years the growing popularity of mobile phones with the ability of accessing the Internet has increased the usage of video streaming services on the mobile phone devices. These devices can access the Internet using different technologies like Wi-Fi, Bluetooth or Wide Area cellular accesses like GPRS, 3G or 4G. Video streaming services typically consume more data than other successful services like e-mails, photo sharing and web-browsing, and their performances are limited by the bandwidth and data rates that can be provided by current mobile networks. Resource limitations in mobile networks are typically translated into data starvation and interruptions in the video streaming playbacks, leading to low user satisfaction levels. In order to evaluate the users satisfaction of the mobile video streaming services, in current heterogeneous mobile networks, it is necessary to introduce techniques to measure the users video streaming quality of experience which relates to how users perceive the quality of video streaming playback. In this paper we present an overview of various techniques for measuring the users QoE of mobile video streaming service.

Key words: Mobile, QoE, Video Streaming