Estimación de Métricas de Video Streaming para "Network Slicing"

Carlos Baena, Sergio Fortes, Eduardo Baena, Raquel Barco
* Universidad de Málaga, Andalucía Tech, Departamento de Ingeniería de Comunicaciones,
Campus de Teatinos s/n, 29071 Málaga, España

{jcbg, sfr, ebm, rbm} @ic.uma.es

Resumen— The use of multimedia content has hugely increased in recent times, becoming in one of the most used and important service for the users of mobile networks. Consequently, network operators struggle to optimize their infrastructure to support the best video service-provision to the end user. As an additional dimension, 5G introduces the concept of network slicing as a new paradigm that presents a completely different view of the configuration and optimization of the network. In this, "slices", this means, specific sets of resources allocated for certaint type of users and services, are agreed between the infrastructure operator and the "verticals" (direct providers of service to end-users), based on different target end-user requirements. A main challenge of this scheme is to establish which specific resources can provide the agreed quality of service. To do so, the present article present a system for the estimation of Video Streaming Key Quality Indicators (KQIs) based on network low-layer configuration and metrics.