

QoS and QoE in 5G networks – Moving towards real-time applications

Abstract:

Today's data services are mainly based on download; requirements on real-time functionality and short-time interactivity are limited. Applications can adjust to changing network conditions as in adaptive streaming, but buffering is still the main concept for bridging interruptions in the data flow. Emerging new applications for 5G will and have to become more real-time and short-term interactive as required for AR, vehicle control or remote factoring. This will require short latencies and seamless connectivity from the network's side and extremely adaptive applications to the existing network conditions. Today's measuring concepts must be reviewed and extended to reflect the upcoming expectations along with 5G and new use cases. This process starts on measurements on the lower technical layers up the performance evaluation of a complete use case and its end-to-end quality. Rohde & Schwarz is at the forefront to develop and offer measurement solutions for this new emerging applications in its product portfolio.