

Summary of Session 5 : QoS and QoE aspects of OTTs; QoS and QoE assessment and benchmarking for mobile networks

Author

Ya Amie Touray



Operators QoS and QoE Aspects affecting OTT Applications & Content Providers

Presenter

❖ **Mohamad Kiwan,**
MTN, Rwanda

❖ **QOS & Technical Capability**

- ❖ The QOS differentiation Tool box - QOS Handling and Profile Handling
- ❖ Network Transformation Project - Data Volume increased from 24TB/Day to 65TB/Day. Speed “Throughput” improved by 250%
- ❖ PCRF Deployment - Service Aware Policy Controller & innovative Solutions
- ❖ Service Caching and Video On Demand – Google & Netflix

QOE & Brand Perception

- ❖ NPS Measurement System - performance ratings & analysis of brand status

Evaluating QoS in 3G networks with ITU-T standards: Case study Yaoundé

Presenter

❖ Bertrand Kisito Nga,
MINPOSTEL, Cameroon

- ❖ Conducted a QOS monitoring Exercise in 2018 for both Fixed and Mobile networks in 11 areas around Yaounde
- ❖ Measured indicators – Success communication rate, File transfer rate (1Mb), Successful Video Streaming rate
- ❖ Monitoring Methodology – data collection software (Nemo Outdoor Handy & Mobile Handsets)
- ❖ Monitoring Results- Operators exceeded the 98.5% threshold for successful communication rate; File transfer rate of 60 % is below the standard threshold and the video streaming rate is significantly better for 4G Networks compared to 3G and 2G

QoS monitoring in Uganda

Presenter

- ❖ Robert Echeda & Fiona Kamikazi, UCC, Uganda

❖ Legal Framework

- ❖ Mandate Of UCC -promote and safeguard the interests of consumers and operators as regards the quality of communications services and equipment
- ❖ Mandate of Other Stakeholders – Public Infrastructure Provider & Public Service Provider

❖ Monitoring Framework

- ❖ Framework developed 2007 sets out QOS Parameters
- ❖ Monitoring Strategies – Scheduled (semiannual& publication) and Unscheduled Monitoring (24/7 all year round & real time data on dashboard)
- ❖ Monitoring Systems – Tems (24/7 & automatic) & Sigos (Local Units mobile & Fixed)

QoS & QoE benchmarking: experiences and challenges

Presenter

❖ Ntsane Mole, LCA,
Lesotho

- ❖ Regulatory Framework – ACT 2012 and QOS Rules 2016
- ❖ Operational Aspects
 - ❖ Xplorer system - control center, probe units & mobile probe units
 - ❖ 5 Probe units are deployed for a period of 3 months in one location
 - ❖ Information is transferred automatically from the probe units to the control center
 - ❖ Measure both Fixed and Mobile
- ❖ Challenges
 - ❖ Inadequate probe units
 - ❖ Operators failure to meet set standards
 - ❖ No broadband policy

QoS monitoring in Côte d'Ivoire

Presenter

- ❖ Derou Fabrice Kouhon,
ARTCI,
Côte d'Ivoire

- ❖ Regulatory and Legislative frame work
 - ❖ Ordinance 2012
 - ❖ License obligations
- ❖ QOS Audit Exercise
 - ❖ Unscheduled QOS Checks
 - ❖ OMCR Data Analysis
 - ❖ User Satisfaction Surveys
- ❖ New Methods
 - ❖ Deploy user friendly mobile app
 - ❖ Increase unannounced checks
 - ❖ Revise thresholds for certain indicators

Takeaways & Conclusion

- ❖ The need to understand customers needs and data usage in order to provide minimum bit rate per second
- ❖ Moving KPIs closer to the user experience, by unifying market, networks and systems in proactive feedback loops, in order to focus attention where it matters the most
- ❖ Revision and amendment of QOS frameworks to reflect the current technologies and networks
- ❖ Combination of network and drive test probes for better results
- ❖ Increase in Unscheduled monitoring exercise

THANK YOU

