ITU-T STUDY GROUP 12

Performance, QoS and QoE

Key areas of work, achievements and outlook

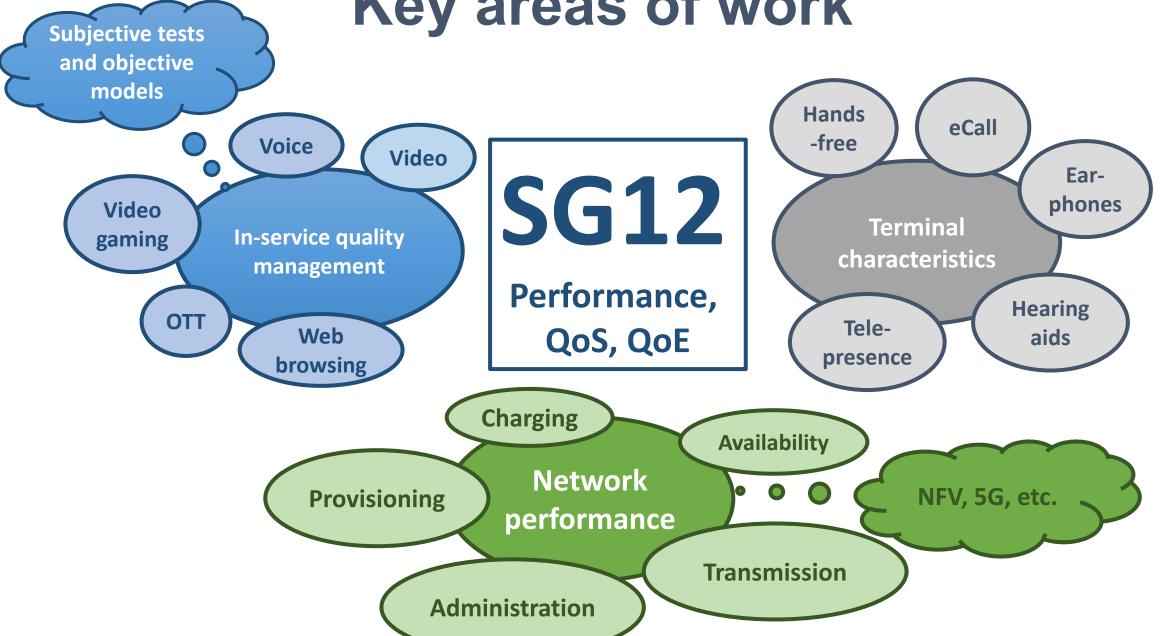


Kwame Baah-Acheamfuor Chairman, SG12





Key areas of work



Achievements ____

Key SG12 achievements in 2013-2016 (1)

VoLTE

First VoLTE standard in ITU-T: End-to-end QoS for voice over 4G



Rapid progress on QoE assessment and prediction for UDP and TCP/HTTP-based video streaming services, including OTT video



Widely used objective test methods for hands-free in vehicles



Completion of buffer models for media streams on TCP transport; hand-over performance among multiple access networks

Key SG12 achievements in 2013-2016 (2)

Approval of 23 new and 25 revised ITU-T Recommendations







Adoption of subjective test methods for **speech intelligibility, telemeetings and web browsing**





Completion of opinion model for network planning of video and audio streaming applications



Revised **MOS** terminology, interpretation and reporting

Quality of Experience

New QoE definition: QoE is the degree of delight or annoyance of the user of an application or service

Challenges

Challenges faced by SG12 in 2013-2016

Conflicts with SG11 on QoS measurements and testing





Limited participation of Sector Members from developing countries

Outlook

Outlook on SG12 in 2017-2020

Addition of lead role on quality assessment of video communications and applications – new work in the pipeline

Number of proposed Questions stable: one merger, one new:

Virtualized deployment of recommended methods for network performance, QoS and QoE assessment

Strong interest in QoS/QoE from administrations and regulators in developing countries.

Regional Group and Quality
Service Development Group play catalytic role for new SG12 work



Abbreviations and acronyms

TCP

UDP

VolTE

5G 5th generation network OT

eCall Emergency call system

HTTP Hypertext Transfer

Protocol

LTE Long-Term Evolution

MOS Mean opinion score

NFV Network function

virtualization

OTT Over the top

QoE Quality of experience

QoS Quality of service

Transmission Control

Protocol

User Datagram Protocol

Voice over LTE



