



## Seminar Workshop: Regulation of QoS in WATRA Member Countries 11 – 14 December 2017.

## **DRAFT AGENDA**

Monday, December 11, 2017: QoS framework		
08:30 - 09:00	Welcome and installation of participants	
09:00 - 10:30	<ul> <li>Official opening of the seminar</li> <li>Adoption of the Seminar Agenda by the Trainer and the participants.</li> <li>General introduction to the ICT sector and regulatory trends.</li> </ul>	
10:30 – 11:00	Coffee break	
11:00 - 13:00	<ul> <li>Introduction to QoS, QoE and Network Performance</li> <li>Definitions of Quality of Service (QoS), Quality of Experience (QoE) and Network Performance (NP: Network Performance)</li> <li>Relationship between QoS, QoE and Network Performance</li> <li>ITU QoS framework</li> </ul>	
13:00 - 14:00	Lunch	
14:00 - 15:30	<ul> <li>QoS regulatory framework</li> <li>Principles for QoS regulation</li> <li>Service Level Agreement (SLA)</li> <li>Activities in QoS regulation</li> </ul>	
15:30 - 16:00	Coffee break	
16:00 - 17:00	<ul> <li>Defining QoS parameters</li> <li>Setting target levels</li> <li>Audit of QoS</li> <li>Publishing measurements</li> <li>Ensuring compliance</li> </ul>	
Tuesday, December 12, 2017: Traffic Management, KPIs parameters and QoS Measurements		
08:30 - 10:30	<ul> <li>Convergence of telecoms and internet world</li> <li>Internet technologies : the basics</li> <li>Traffic Management Aspects</li> </ul>	
10:30 - 11:00	Coffee break	





11:00 – 13:00	<ul> <li>QoS, QoE, and application needs</li> <li>QoS parameters</li> <li>Interconnection and QoS regulations</li> </ul>	
13:00 – 14:00	Lunch	
14:00 – 15:30	<ul> <li>Key Performance Indicators (KPIs)</li> <li>QoS measurement</li> <li>Broadband QoS measurements</li> </ul>	
15:30 – 16:00	Coffee break	
16:00 – 17:30	<ul> <li>Broadband QoS measurements -Case study</li> <li>Monitoring QoS and IP network services</li> </ul>	
Wednesday, December 13, 2017: Economic Principles and techniques for regulating QoS		
08:30 – 10:30	<ul> <li>Two-sided market</li> <li>QoS and pricing</li> <li>Main regulatory goals of network neutrality</li> </ul>	
10:30 – 11:00	Coffee break	
11:00 – 13:00	<ul> <li>Network neutrality business aspects</li> <li>Role of NRA in the regulation of network neutrality</li> </ul>	
13:00 – 14:00	Lunch	
14:00 – 15:30	<ul> <li>Case study – Network neutrality regulation in Europe</li> <li>Case study - Network neutrality regulation in United States (US)</li> <li>Case study - Network neutrality regulation in India</li> </ul>	
15:30 – 16:00	Coffee break	
16:00 – 17:30	<ul> <li>Challenges regarding QoS and the network neutrality</li> <li>Network neutrality enforcement</li> </ul>	

Thursday, December 14, 2017: Consumer Protection, Privacy and QoS enforcement		
08:30 - 10:30	<ul> <li>Consumer protection aspects</li> <li>Privacy aspects</li> <li>Kenya: QoS assessment and enforcement</li> <li>India: Enforcement of QoS for mobile services</li> <li>Suggested penalities in India for breach QoS</li> </ul>	





10:30 - 11:00	Coffee break
11:00 – 13:00	<ul> <li>Prohibition of discriminatory tariffs for data services</li> <li>Thailand: Enforcement of broadband QoS</li> <li>Europe: Internet access service (IAS) regulation</li> <li>Ghana: QoS regulation and sanctions</li> <li>Bangladesh: QoS regulation</li> </ul>
13:00 – 14:00	Lunch
14:00 – 15:30	<ul> <li>QoS regulation and enforcement in the following countries:</li> <li>✓ Benin</li> <li>✓ Burkina Faso</li> <li>✓ Green Cape</li> <li>✓ Ivory Coast</li> <li>✓ Gambia</li> <li>✓ Ghana</li> <li>✓ Guinea Bissau</li> <li>✓ Liberia</li> <li>✓ Mali</li> <li>✓ Niger</li> <li>✓ Nigeria</li> <li>✓ Senegal</li> <li>✓ Sierra Leone</li> <li>✓ Togo</li> <li>✓ Mauritania</li> </ul>
15:30 – 16:00	Coffee break
16:00 – 17:30	<ul> <li>Guidelines on QoS enforcement</li> <li>Summary and concluding remarks</li> <li>Closing ceremony</li> </ul>