

Conformance and Interoperability (C&I): Regulatory framework and practical SAR, RF, DTT and EMF tests including Creation of Basic lab facilities.

Accra (Ghana) 2nd – 6th September 2019

	2 nd September 2019	
9h: 00 - 10:00	Welcoming, Registration and Opening Welcoming speech ITU Welcoming speech NCA NCA Director General ITU Representative	
10h: 00 - 10:30	Break	
10:30 - 12:00	Session 1: Half day slot for ITU – Presentation of the C&I Programme – including activities and status of Study group 2 Question 4 including C&I Africa Group ITU C&I Programme: Study Group 2 Question 4 and C&I Africa Group Activities > Key activities on Study Group 2 Question 4 (2/4) > Structure and details of the question > Format and Submission of contributions > Africa Group Activities > Discussion on the way forward • Chali Tumelo (ITU) • Vladimir Daigele	
12:00– 13:30	Lunch	

13:30 - 14:30	Session 2: Introduction to Conformance and Interoperability (C&I) testing Creation of Basic types of Test labs: Building Test Labs and/or establishing Mutual Recognition Agreements/Arrangements at Regional/Subregional levels This session will focus on conformance and interoperability testing. Essentially the session will discuss in detail the following key areas which are the basis for C&I testing regime Standards & Technical requirements Processes of standards setting mutual recognition arrangement (MRAs) Interoperability issues Contribution of Testing Laboratories to C&I framework for one stop shop Type Approval and harmonisation of standards Requirements to set up a basic C&I Lab ITU NCA	20 slides/pages
14:30 – 15:30	Break	
15:30 – 16:30	Session 3: Conformity Assessment; Designating Authorities and Conformity Assessment Bodies/ Proposed roadmap to establish a procedure for type approval testing NCA NCA	15 slides/pages
16:30 -	Session 4: Knowledge sharing on Country	Not more than 5 slides per
17:30	experiences in C&I (Type Approval) Procedures Presentation by Delegates from other countries	country (no translation is required)
	3 rd September 2019	
9: 00 - 10:30	Session 5: Technical and Regulatory framework type approval Administrative Procedures of type approval	20 slides/pages
	The World recognizes that counterfeit and substandard ICT devices pose a lot of challenges in developing countries, particularly the Africa region. This session will discussion the regulatory requirements, procedures and mechanism in place to	

	accept and recognize ICT devices in a country. The presentations will specifically focus on the technical and regulatory requirements to be considered when authorizing equipment onto a market. a. The technical requirements • Health and Safety • Electromagnetic Compatibility (EMC) • Radio Frequency (RF)/Interference • Electricals/LVD • Quality of service • Network compatibility/Interoperability b. Legal & Regulatory requirements • Legal Framework • Type approval & Management system • Proxy & Administrative approvals • Market surveillance activities • NCA • NCA • NCA by the end of the above sessions the participants would have clearly understood the need of C&I testing, essence of MRA, technical and regulatory requirements when developing C&I regime for a particular market	
10: 30 - 10:45	Break	
10:45 - 12:00	Session 6: The NCA Type Approval Labs Administrative Procedures of type approval The essential infrastructure to C&I regime, a focus on the NCA type approval, conformance labs and experience so far. It will also look at the general laboratory administrative procedures Standard Operating and Testing procedures for: Specific Absorption Rate (SAR) Lab Radio Frequence and Signalling Lab Electromagnetic Field Strength (EMF) Lab DTT (Digital Terrestrial TV) Lab Specific Absorption Rate (SAR) Lab Meaning & Explanation of SAR SAR Levels according to Standards Hands on Practical for SAR testing How to Interpret and Evaluating a SAR report/results.	15 slides/pages

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12:00 -	Lunch	
13:30		
13:30 -	Session 7: Radio Frequency and Signaling Lab	25 slides/pages
15:00	Overview of RAN Technology	
	WLAN & Bluetooth	
	Basis of Cellular Networks	
	Hands on Practical for RF testing	
	Conducting testing, Radiation testing,	
	preparation and interpreting test results	
15:00 -	Break	
15:15		
15:15 –	Session 8: Electromagnetic Field Strength (EMF) Lab	20 slides/pages
17:30	Introduction to EMF	
	EMF measurement levels according to	
	standards • Hands on Practical for EMF measurement	
	EMF Visual and simulations	
	Analysis and evaluation of EMF Report	
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	SAR Lab	
	 RF & Signalling Lab 	
	EMF Lab	
	DTT Receiver Lab	
	4 th September 2019	
9:00-	Session 9: DTT Lab	
10:30	 Introduction to Ghana DTT standards and 	
	Network	
	Hands on Practical for DTT testing	
	Analysis and evaluation of DTT report	
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10: 30 -	Break	
10:45		
10:45-	Session 8: Introduction to Practical Work (Labs)	
12:45	Specific Absorption Rate (SAR) lab	
	 Radio Frequency and Signalling (RF & 	
	Signalling) Lab	
	Signaming) Lau	

42.45	 Electromagnetic Field Strength (EMF) Lab Digital Terrestrial Television (DTT) Receiver Lab 	
12:45 – 14:00	Lunch	
14:00-	Session 9: Presentation of SAR Project and	
16:00	Practical Work : Lab testing Specific Absorption Rate (SAR) Lab	
	• NCA	
	5 th September 2019	
9:00-10:30	Session 10: Presentation of Radio Frequency Project and Signalling including Practical Work: Lab testing on RF(Ctd)	
	NCA NCA	
10: 30 -	Break	
10:45		
10:45 - 12:15	Session 11: Presentation of Electromagnetic Fied Strength project including Practical Work : Lab testing on Radio Frequency and Signalling	
	• NCA	
12:15 – 14:00	Lunch	
14:00 – 15:30	Session 12: Presentation on Digital Terrestrial Television Receiver(DTT) project including Practical work: Lab testing on Digital Telestrial Television Receiver (DTT) testing • NCA	
15:30 –	Session 13: The ITU activities on C&I with focus	
17:00	on Pillars 3 & 4 of the C&I Programme	
	This session will focus on ITU activities on C&I testing. It will highlight relevant resolutions from the ITU sectors, including the PP resolution. It will introduce the ITU C&I Programme and specifically focus on Pillars 3 and 4, deliverables, including the outcomes of WTDC-17, WTSA-16, ITU-D and ITU-T SGs and Questions relating to	

	C&I	
	6 th September 2019	
9: 00 -	Session 14: Brainstorming, Q&A and Evaluation	
12:00	Closure	
	Member States/NCA/ITU	
12:00-	Lunch	
13:00		
13:00-	Tour of Accra	
17:00		