

SESSION 1: CONFORMANCE AND INTEROPERABILITY ACTIVITIES IN THE REGION - “Ghana’s Perspective”

**1st October, 2025
by: Peter Onyekwere (NCA)**

**NATIONAL
COMMUNICATIONS
AUTHORITY**



Presentation Outline

- Conformance & Interoperability (C&I) in Ghana
- Why C & I in Ghana
- C & I Journey in Ghana
- What do we approve?
- Result of our C & I Journey
- Challenges of C & I in Ghana
- Possible Recommendations
- Ongoing Initiatives
- Q & A

Conformance & Interoperability

Conformity Assessment (CA) involves a set of processes that show your product, service or system meets the requirements of a standard.

Benefits:

- ☐ It provides stakeholders a higher level of confidence.
- ☐ It gives brand owners competitive advantage.
- ☐ It helps regulators ensure compliance (health, safety or environmental, etc)

Why C & I in Ghana



C & I Journey in Ghana

EC Act 2008, Act 775

This is the work act which elaborate what should be done based on powers drawn from the Act 769.

✓ Section 66, 67 & 70

TA Regime

- TamSys
- Structured TA Process
- Market Surveillance
- Port Inspections

2006



2008



Act 542 → **NCA Act 2008, Act 769**

NCA was established by an Act of Parliament.

- Section 3(n) – “*certify and ensure the testing of communications equipment for compliance with*”



2008

2011



2015



EC Regulation 2011, L.I 1991



Type Approval Guidelines, 2015

Regulation 78 & 79 of L.I.1991



2014



NCA Type Approval Laboratory

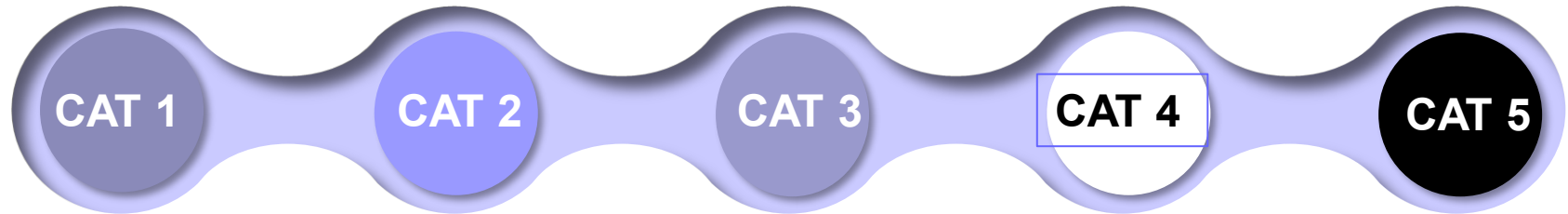
- Specific Absorption Rate (SAR) Lab.
- Radio Frequency & Signaling Lab
- Electromagnetic Field Lab

2018



NATIONAL COMMUNICATIONS AUTHORITY
Division

What do we approve?



Terminal Equipment

Mobile handset, POS, Tablets, Wireless enabled infotainment system, mobile dongles, IP phones, etc

Module & Short Range Radio Device

Wi-Fi, Bluetooth, NFC Reader, RFID, Keyless entry cards, etc.

Network Equipment

Class 1 – Telecommunication Network. Eg. BSCs, MSCs, Media Gateways, etc.

Class II – Computer Network. Eg. Servers, Switched, Routers, etc.

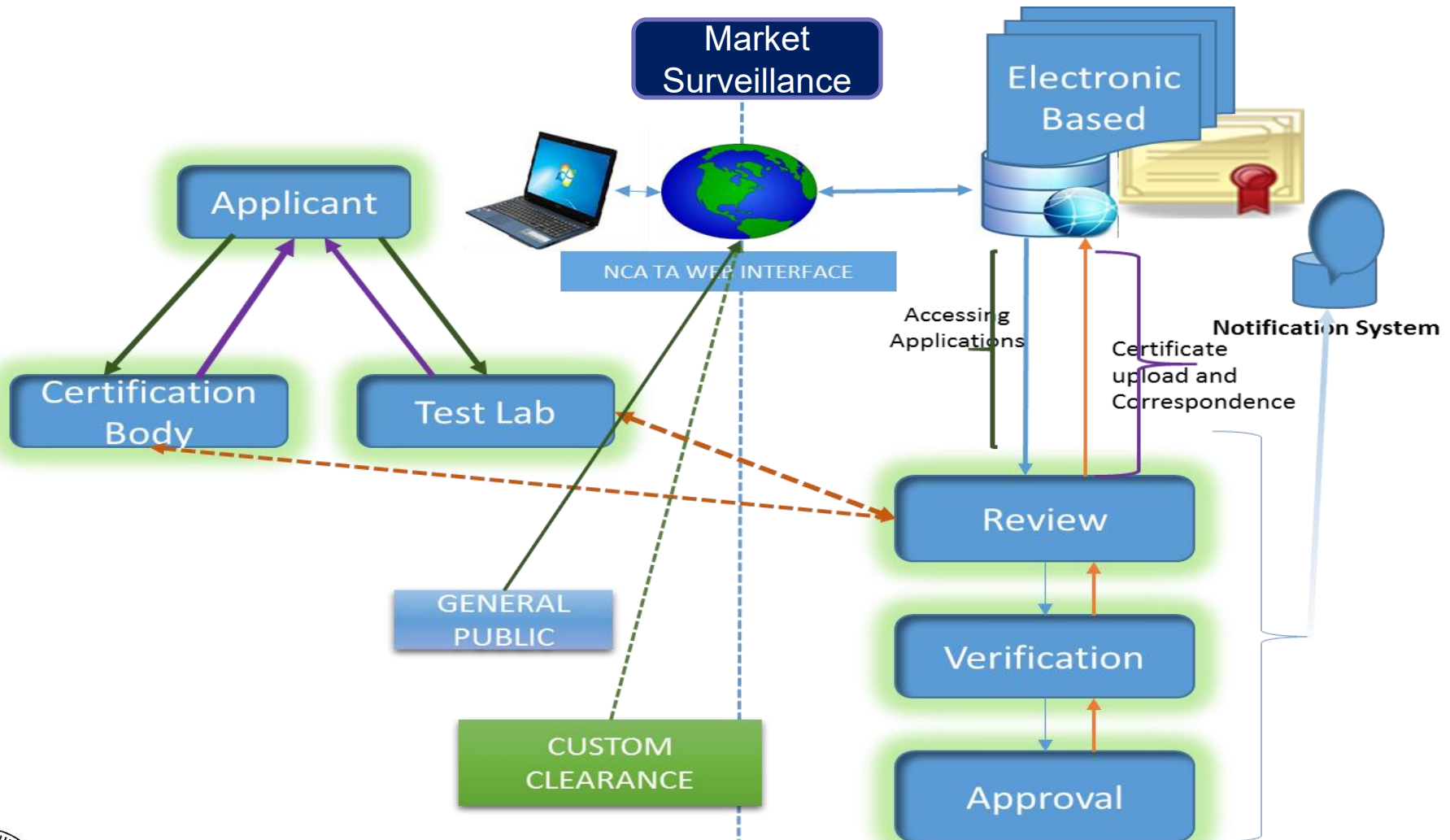
Radio Transceivers & Transmitter

Radio equipment, Broadcasting equipment, Satellite equipment, Antennas

Frequency Dependent Medical Device

Sealing generators, Bluetooth/WLAN enabled medical devices

Type Approval Management System Architecture & Process



The Authorisation Certificate

NCA PRODUCT IDENTIFIER: XXX-XX-XXX-XXX

TYPE APPROVAL CERTIFICATE

ISSUED BY



NATIONAL COMMUNICATIONS AUTHORITY

UNDER THE ELECTRONIC COMMUNICATIONS ACT 2008, ACT 775 AND THE ELECTRONIC COMMUNICATIONS REGULATIONS 2011, L.I. 1991

Attention (Where Available): Isaac Boateng Date of Issue: 24th May 2016

The National Communications Authority hereby grants this Certificate to

Boateng Incorporated
(Hereinafter called the Certificate Holder)
of
Lane 1 block 2, Kottam Estates, Accra, Ghana

Based on the favourable assessment of the Test Reports and other relevant Documents submitted to the Authority.

This Certificate is **VALID ONLY** for the under-mentioned product:

APPROVED PRODUCT TYPE	:	Tablet Computer
MODEL NUMBER	:	bt2016
BRAND/TRADE NAME	:	boat
PRODUCT NAME	:	boat A1
FREQUENCY RANGE (WHERE NECESSARY)	:	GSM 800, DCS 1800, WCDMA Band I
EFFECTIVE RADIATED POWER (WHERE NECESSARY)	:	GSM900:33.80dBm; DCS 1800:31.20dBm WCDMA Band I: 24.22dBm,

INTENDED USE OF PRODUCT

The device is a Mobile Phone supporting GSM and UMTS to be used for voice and data communication on the above stated frequency levels

The Certificate Holder is hereby authorized to use or sell the above-mentioned product in the Ghanaian Market directly or through its ~~Licensed~~ dealers or agents. The Certificate Holder must at all times abide by the provisions in the Type Approval Guidelines and other relevant regulations. The same is null and void when the equipment is altered in function and no longer falls within the parameters verified from the accredited Test Lab.

DIRECTOR GENERAL

This Certificate is issued in Pursuant of Section 1(a) of the National Communications Authority Act 2008, Act 769, Section 66 of the Electronic Communications Act 2008, Act 775, Regulations 75-89 of the Electronic Communications Regulations 2011, L.I.1991

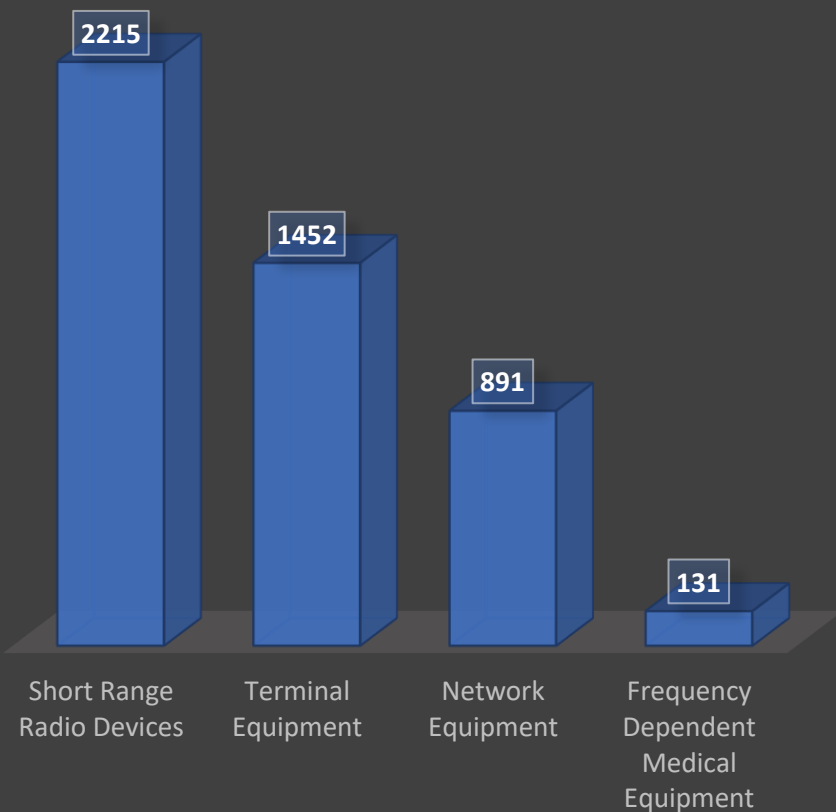
PLEASE NOTE: THE MARK "NCA APPROVED: XXX-XX-XXX-XXX" MUST BE VISIBLE ON THE PRODUCT PER THE TYPE APPROVAL GUIDELINES

NATIONAL COMMUNICATIONS AUTHORITY
Division

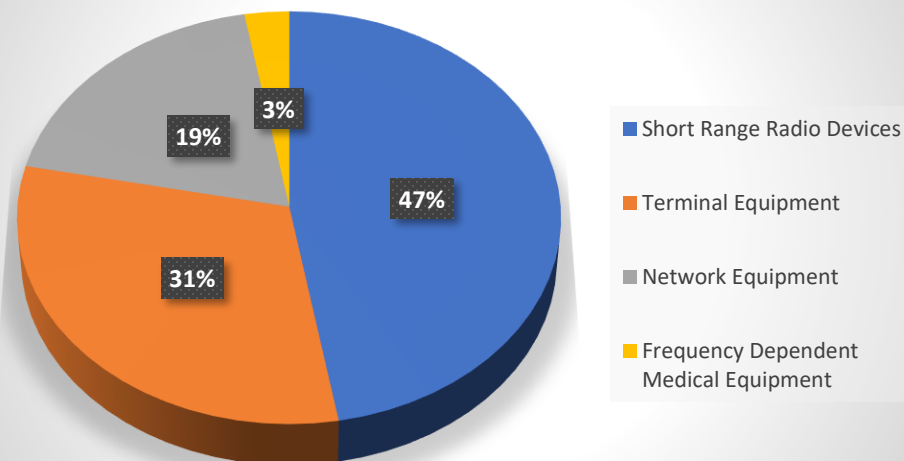


Result of our C & I Journey

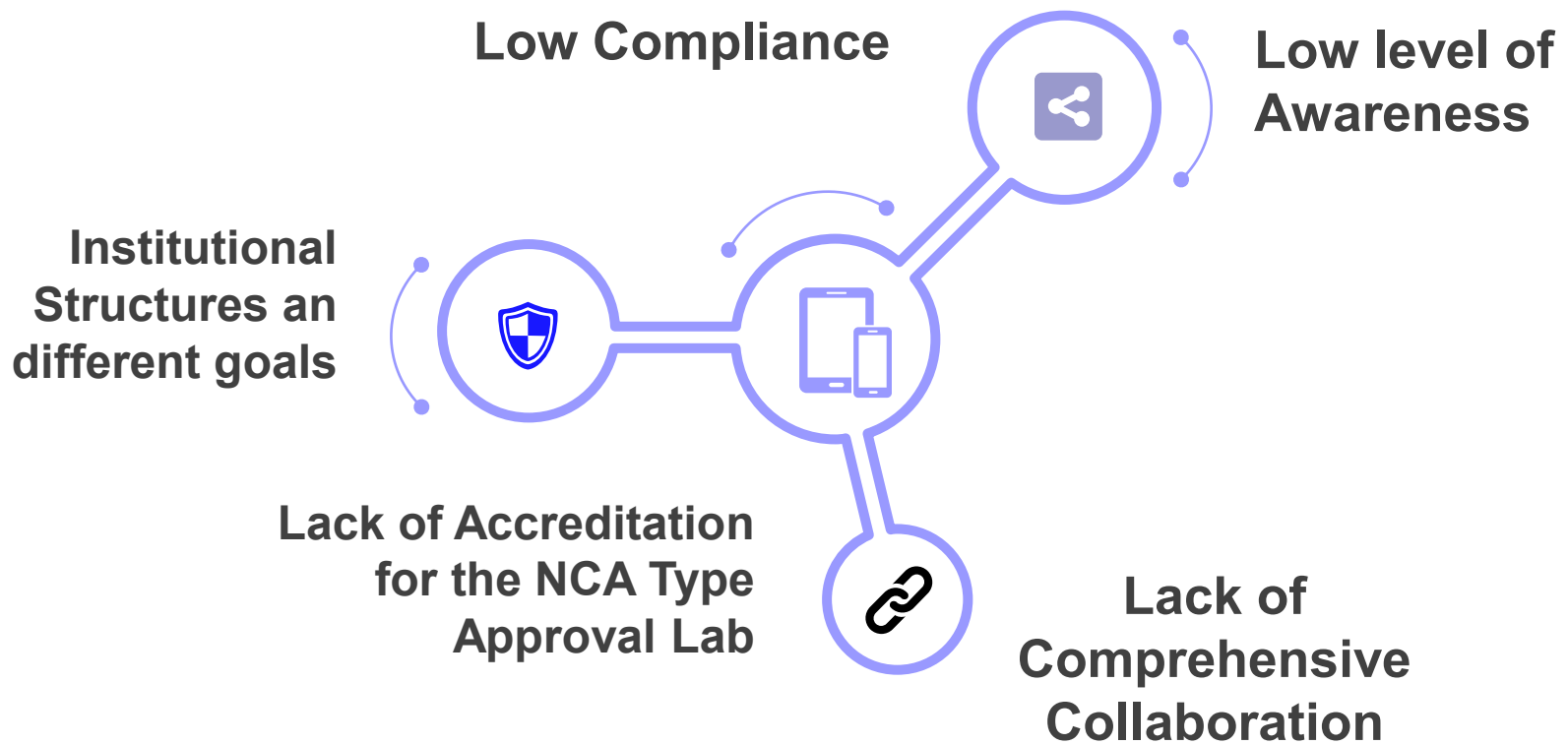
DISTRIBUTION PER CAT



Cat of Approved ECE in %



Challenges of C & I in Ghana



Recommendations

- Regular stakeholder engagement & education
- Pre-entrance inspections
- Regular Market Surveillance
- Comprehensive collaborations among other state agencies
- Digitalization of C & I processes

Ongoing Initiatives

- Targeted Stakeholder engagements and public education.
- Central Equipment Identity Register.
- Incorporation of CEIR with the Approved Equipment register.
- Lab Recognition Regime



Thank you.



NATIONAL COMMUNICATIONS AUTHORITY
Division



Any Questions?

