



AFRICAN ADVANCED LEVEL TELECOMMUNICATIONS INSTITUTE (AFRALTI)

WORKSHOP ON LONG TERM EVOLUTION (LTE): TECHNOLOGY AND BUSINESS DRIVERS

This course explores the Overview of the key technology & business drivers, including: higher spectral efficiency, all-IP network, Self Organizing Network (SON), Multiple-Input Multiple-Output (MIMO), high spectrum flexibility and scalability, higher peak data rates, lower latency, network sharing, lower costs per bits, improved user quality of experience, and monetizing the network.

Target group

- Senior and middle level business and technical managers working for mobile operators and other ICT service providers
- ICT regulators and policy makers
- Equipment vendors
- ICT consultants and Analysts.

WORKSHOP OVERVIEW

The workshop will explore key areas in:

LTE RADIO INTERFACE - Detailed description of the LTE radio interface and procedures.

MIMO TECHNOLOGIES IN 3GPP LTE AND LTE-ADVANCED - Overview of the different Multiple input multiple output (MIMO) technologies.

LTE SYSTEM ARCHITECTURE & PROTOCOLS

Description of the LTE functional elements, interfaces, and protocols.

LTE SPECTRUM OVERVIEW - Overview of the standard FDD and TDD bands allocated for LTE.

LTE CHALLENGES - Presentation of the main challenges in adopting and deploying LTE.

LTE ECOSYSTEM - Overview of both the LTE device and network ecosystems.

STATE OF LTE DEPLOYMENTS - Presentation of the current state of LTE deployments around the globe and the different marketing and technology strategies .

LTE DEPLOYMENT SCENARIOS & STRATEGY - Review of all LTE deployment scenarios.

QoS IN LTE - Description of the QoS mechanisms in LTE.

VOICE SERVICES WITH LTE - Description of the pros and cons of the different options to

Dates:

10th – 14th August 2015.

Venue:

Mozambique, Maputo.

**TUTION FEES:**

AFRALTI Members - USD 1,200.

Non-Member States- USD 1,440.

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AFRALTI Workshop – LONG TERM EVOLUTION Workshop Overview ...

SELF-ORGANIZING NETWORK (SON) IN 3GPP LTE - Overview of the various SON features offered in the different release versions of LTE.

LTE NETWORK SHARING - Description of the network sharing options (and their related benefits) offered by the standard 3GPP features, as well as those offered by some non-standard commercial features.

INTERFERENCE MANAGEMENT WITHIN LTE -Goals of interference management within cellular systems.

LTE NETWORK PLANNING - Description of the key steps in planning an LTE network.

LTE ROAMING - Description of the roaming guidelines and implementations for voice and data services.

LTE INTERWORKING WITH 2G & 3G - Description of the key options, procedures, and related reference points between the 2G&3G network and the LTE network.

Workshop Objective and key benefits:

Participants to the LTE Workshop will get an understanding of the benefits and challenges offered by LTE so that they will be in the position to:

- Describe the features and benefits of LTE;
- Understand the LTE network components and functions;
- Understand LTE Air Interface Methods
- Determine the available LTE options in terms of spectrum, equipment availability, timeline, evolution from 3G;
- Understand the current state of the LTE eco-system and service offerings;
- Optimize their LTE strategy, based on LTE current & future capabilities;
- Understand all areas of their business that will be affected by LTE;
- Initiate an educated dialog with equipment vendors and service providers on procurement initiatives.