TK415: LTE KPI

Duration

2.0 Days

Course Content

1. KPI Introduction

2. KPI architecture

- 2.1. Difference between RAN measurements and KPI's
- 2.2. Counters overview
- 2.3. Different counter areas

3. Capacity areas and cell resource measurements

- 3.1. Capacity areas in E-UTRAN
- 3.2. Outer and inner loop link quality control measurements
- 3.3. Link adaptation AMC and ATB measurements
- 3.4. packet scheduling, MIMO and power control measurements
- 3.5. throughput and cell availability measurements

4. Paging and RRC Connection

- 4.1. Idle and connected states within LTE
- 4.2. DRX measurements
- 4.3. TTI Bundling feature measurements
- 4.4. RRC connection setup procedure measurements
- 4.5. RLF measurements
- 4.6. Multimedia priority service measurements

5. RAB and NAS counters

- 5.1. LTE bearer concept

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5.2. Bearer setup and the corresponding counters

6. Mobility measurements in connected mode

6.1. HO types and Mobility events in LTE.

6.2. Intra and inter eNodeB Handover phases and related KPI's

6.3. describe Load Balancing

6.4. Inter-frequency / inter-RAT redirection

6.5. HO via X2,S1 interface.

6.6. Service based mobility

6.7. CSFB measurements

6.8. SRVCC measurements

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