Course ID	Course Title
3GLTEOPT	**3G/LTE Performance Analysis & Optimization**
Course Duration	
5-6 days	

Related Courses

This course is designed to complement the Eogogics 3G and LTE technology and planning courses.

Aimed At

Primarily, engineers involved in RAN planning, performance management, QoS, and optimization. However it may also benefit RAN RF tuners and RNC-LTE optimization teams in Network Management Centers (NMC's) or Operation Management Centers (OMC's).

Prerequisites

Those wishing to take this course should be well-versed in UMTS/HSPA and LTE.

Course in a Nutshell

Performance statistics and KPI's are an important subject of study for RAN optimizers, performance analysts, and planners/tuners. This course, part of our 3G/4G interoperability series, will help you acquire an intuitive mastery of the 3G and LTE performance metrics and leverage them to plan, revise, optimize, and troubleshoot 3G/LTE networks. As such, this course is a valuable adjunct to the 3G and LTE technology and planning courses.

Customize It!

- We can adapt this course to your own technical environment.
- It can also be shortened to five days by omitting IMS, VoLTE, or other topics that are less important to you.

Learn How To

- Define 3G and LTE KPIs
- Trouble shoot 3G and LTE networks using performance counters
- Combine 3G and LTE signaling with statistics and counter performances
- Revise 3G and LTE plans in light of statistics and performance metrics
- Better understand and exploit the 3GPP optional radio features

Course Outline

- Day 1 Agenda
  - 3G radio technology overview
  - 3G functionality overview
  - 3G accessibility
  - 3G accessibility KPI's
  - Optimizing 3G accessibility
  - **Exercises:** WCDMA accessibility log files analysis (using TEMS)
  - **Case studies** with real network statistics (using Excel spreadsheets)

- Day 2 Agenda
  - 3G retainability
  - 3G retainability KPI's
  - Optimizing 3G retainability
  - 3G integrity
  - 3G integrity KPI's
  - 3G integrity optimization
  - **Exercises:** WCDMA retainability/integrity log files analysis (using TEMS)
  - **Case studies** with real network statistics (using Excel spreadsheets)

- Day 3 Agenda
  - HSPA radio technology overview (air interface, MAC protocol)
  - HSPA mobility overview
  - HSPA performance and KPI's
  - HSPA optimization
  - **Exercises:** HSPA log files analysis (using TEMS)
  - **Case studies** with real network statistics (using Excel spreadsheets)

- Day 4 Agenda
  - LTE radio technology overview
  - LTE functionality and optional features
  - LTE accessibility
  - LTE accessibility KPI's
  - LTE accessibility optimization
  - *Exercises:* LTE accessibility log files analysis (using TEMS)
  - *Case studies* with real network statistics (using Excel spreadsheets)

- Day 5 Agenda
  - LTE retainability
  - LTE retainability KPI's
  - LTE retainability optimization
  - LTE integrity

- LTE integrity KPI's
- LTE integrity optimization
- **Exercises**: LTE retainability/integrity (using TEMS)
- **Case studies** with real network statistics (using Excel spreadsheets)

- (Optional) Day 6 Agenda

  - IMS platform
  - VoLTE overview
  - VoLTE optimization
  - CS-Fallback overview
  - CS-Fallback optimization

- Wrap-up

  - Course recap and Q/A
  - Evaluations

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