



ariesoGEO – Bolt On LTE

(ARI0053)

Course Outline

ariesoGEO – Bolt On – LTE

Detailed Course Outline

This one day course is designed for engineers who already have knowledge of ariesoGEO on a different technology, i.e. UMTS. The course enables engineers who are now responsible for LTE planning, optimization or monitoring, to get familiar with the LTE specifics of ariesoGEO. It assumes a currently level of ariesoGEO knowledge and as such, more time is specifically allocated to specific demonstrations and student activities relating to the LTE aspects of ariesoGEO. The course is designed to run on your live LTE ariesoGEO system. In so doing, individual students will boost their knowledge of ariesoGEO in relation to LTE operation.

Pre-requisites:

This is an additional course that assumes attendees have a working knowledge of the ariesoGEO platform and have attended a User course of a different technology. This course is commonly run in conjunction with the ariesoGEO User UMTS class. This course does not cover how to operate and setup ariesoGEO. This course will introduce the student to the LTE analyses available in ariesoGEO.

Section 1: RF Analysis – Network and Cell

- Investigation of Key KPIs, including power and quality measurements
- Analysis of Channel Quality KPIs
- Footprint analyses on individual cells based on Power and Quality KPIs
- Investigation and analysis of RF Health Index
- Simulating Antenna Changes

Section 2: Call and Connection Analysis

- Plotting LTE calls (VoLTE & ViLTE) and handover locations
- Detailed explanation of Spider and Layer 3 drill-down analyses
- Investigation of connections and session bearers
- Call failure reason investigation for individuals and geographical areas

Section 3: Analyzing Data Throughput Performance

- Usage investigation in the uplink and downlink channels
- Geographical investigation of Performance KPIs

Section 4: Grid Calculator

- Demonstrate how ariesoGEO can be used to create complex performance KPIs analysis
- Make use of the Grid Calculator to locate and optimize RF problem areas
- Measure the impact of the optimization plans in RF and footprint performance KPI
- Measure the impact of 4G deployment on the data rates of existing 3G systems

