

5G PROTOCOL TESTING AND LOG ANALYSIS



1

4G PROTOCOL TESTING:

- .What is Protocol Testing and Log Analysis.
- Common Troubleshooting Issues.
- LTE Introduction
- What is 3GPP.
- Protocol Testing Job Profiles.
- LTE Architecture
- LTE Interfaces
- LTE Protocol Stack
- LTE Channel Mapping
- LTE Frame Structure
- LTE Identities
- LTE Power On Scenario
- LTE Signals PSS & SSS
- LTE System Information
- LTE DL Channels: PBCH, PHICH, PCFICH
- LTE DL Channels : PDCCH, PDSCH
- LTE UL Channels: PUCCH, PUSCH
- LTE RACH Procedure
- LTE Layer 3-NAS and RRC
- LTE Layer-2 PDCP RLC and MAC

5G PROTOCOL TESTING AND LOG ANALYSIS



- LTE Cell Selection
- LTE Handover
- LTE Carrier Aggregation
- LTE CSFB and SRVCC Concept
- LTE IMS/VOLTE
- LTE SIP Protocol
- LTE Call Flow
- LTE Log Analysis (QXDM and QCAT)
- LTE Conformance Testing Process

2

5G PROTOCOL TESTING:

- .What is Protocol Testing and Log Analysis for 5G.
- Common Troubleshooting Issues.
- 5G Introduction
- What is 3GPP. specification for 5G.
- Protocol Testing Job Profiles.
- 5G Architecture
- 5G Interfaces
- 5G Deployment Scenario
- 5G Protocol Stack
- 5G Channel and their Mapping

5G PROTOCOL TESTING AND LOG ANALYSIS



- 5G Frame Structure
- 5G Numerology
- 5G CORESET
- 5G Band Width Part
- 5G Slicing
- 5G Initial Access Procedure and SS Block
- 5G NR System Information
- 5G RACH Procedure
- 5G NAS and RRC Layer
- 5G SDAP Layer
- 5G PDCP RLC and MAC Layer
- 5G Cell Selection
- 5G Handover
- 5G Call Flow
- 5G Log Analysis (QXDM and QCAT)
- 5G Conformance Testing Process