Voice over 5G Training

This course will provide an explanation of how voice services are provided in a 5G network, using VoNR (Voice on the New Radio). The course will cover topics like architecture specifications protocols, Call flows and a range of scenarios related to calls will be discussed, including scenarios for service continuity that are related to LTE and CS networks

Audience

Knowledge on 5G

Content of the Training: 2 days trainnig

Module 1: Introduction to Voice Over 5G (Vo5G)

- Evolution to Vo5G
- Vo5G Foundation

Module 2: 5G Voice Solutions & IMS Network Architecture

- 5G Voice Solutions Overview including NSA and SA
- IMS Network Architecture and Identifiers Exploration

Module 3: EPS Fallback & VoNR Protocols

- EPS Fallback Call Procedure with Handover
- Basic VoNR Call Procedure
- Voice Service Activation in SA Networking

Module 4: VoNR Deployment Key Considerations And Technology Evolution

- VoNR Deployment Key Considerations
- 5G SA & EPS Fallback Evolution
- VoNR Industry Evolution

Module 5: Voice Over 5G Architecture

- Scenarios, and IMS Voice Interworking Issues
- 5G and VoNR Architecture Insights: Core Networks and Components
- IMS Call Control Network and Protocols
- P-CSCF Responsibilities, Application Servers, and Supplementary Services

Module 6: IMS Key Concept and Voice Call Procedures

- VoNR Protocols, SIP Features, and Diameter Base Protocol
- IMS Registration, Authentication, and Subscriber Profile Acquisition
- End-to-End VoNR Call Flow and Voice Call Media Services
- Procedures and Protocols for VoNR Call Establishment and Termination

Module 7: Vo5G Signaling Procedures

- VoNR Signaling Procedure
- EPS FB Signaling Procedure
- SMS Procedure