



5G Voice over NR

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. **Course description**

Content of the 2 days Live Training:

1) **Reminder of VoLTE**

1. VoLTE Feature Overview
2. VoLTE Basic Features
3. VoLTE Enhanced Features
4. VoLTE Architecture.
5. VoLTE Protocol Stack.

2) **Deploying VoNR:**

1. Deployment Considerations.

3) **VoNR High Level Network Architecture:**

1. Key Components.
2. VoNR Standardization

4) **5G Access Network:**

1. Key Architectural Components.

2. 5G Service Based Architecture.

5) IMS Call Control Network:

1. High Level Concept.
2. IMS Requirements.
3. IMS Protocols.

6) IMS Architecture:

1. Call Session Control Functions: P-CSCF, S-CSCF, I-CSCF, E-CSCF.
2. Access Transfer Functions: ATCF, ATGw.
3. Home Subscriber Server.
4. IMS Voice Application Servers.

7) End to End VoNR Architecture.

8) VoNR Protocols

1. Session Initiation Protocol:
2. Diameter:
3. Service Based Architecture:

9) 5G Key Concepts Associated with VoNR:

1. QoS Model in 5G.
2. QoS Rules and Packet Detection Rules.
3. QoS Flow Parameters