5G Voice Solutions - VoNR and EPS Fallback Part 2: 5G and IMS Registration

5G_224d | On-Demand | 5G Core | Expanded
Course Duration: 4 hours

This is the second course in a four-course set of self-paced courses encompassing 5G Voice Services. In this course, you will learn 5G Registration and PDU session setup with the IP Multi-media Subsystem (IMS) for voice services. You will also gain an understanding of how 5G voice calls use IMS for voice and an overview of the IMS architecture. Each course in this four-course set can stand on its own or can be combined with other courses as necessary to meet your learning objectives

Intended Audience

Planning, design, engineering and operations personnel

Objectives

After completing this course, the learner will be able to:

- Describe UE registration and PDU session establishment in 5G networks
- Explain pre-call functions in 5G registration and PDU session establishment
- Identify the key components of the IMS network, including CSCFs and application servers
- Analyze the IMS registration call flow
- Describe the integration of 5G Core and IMS architecture and its impact on voice services

Course Prerequisites

5G Networks and Services

Outline

1. 5G Registration and PDU Session Establishment
1.1 UE Registration in 5G
1.2 PDU Session Overview and Establishment
1.3 Pre-Call Functions in 5G Registration
1.4 Pre-Call Functions in PDU Session Establishment
Exercise: PDU Session Establishment for IMS DNN

2. The IMS Network
2.1 CSCFs and the Gm Interface
2.2 Application Servers and IFC
2.3 Interworking Functions
Exercise: 5G Core and the IMS Architecture
Exercise: IMS Registration Call Flow
Exercise: 5G and IMS Registration

Final Assessment

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