5G Core Network Signaling and Operations Part 3: UE Registration in 5G

5G_219d | On-Demand | 5G Core | Expanded
Course Duration: 4 hours

This is the third course in a six-course set of self-paced courses encompassing 5G Core Network Signaling and Operations! In this course, you will gain an in-depth understanding of the key 5G Core Network operations relating to registration, authentication, and security setup for a UE. You will also learn about UE identifiers used in 5G, UE states relating to registration, PDU connections and radio resource control, and a detailed discussion of the related signaling for registering a UE with the 5G core network.

Intended Audience

5G Core Network engineering, operations, and performance related job functions

Objectives

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

- Describe the procedures for UE registration and authentication in 5G
- Explain the UE states relating to registration, PDU sessions, and RRC connections
- List the UE identifiers used in the 5G network

Course Prerequisites

5G Core Network Overview

Outline

1. UE Identifiers and UE States
1.1 5G Identifiers
1.2 UE States

2. UE Registration and Authentication
2.1 UE Registration in 5G
2.2 Authentication and Security in 5G
2.3 End-to-end registration flow
2.4 Equipment Identity check signaling
Exercise: UE Registration signaling
Exercise: Authentication and Security signaling
Exercise: Authentication and Security signaling

3. Exploring the signaling
3.1 Mastering registration signaling
Exercise: 5G Registration

Assessment

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