5G (SA) RAN Signaling and Operations Part 3: Registration and PDU Session Setup

5G_213d | On-Demand | 5G Access | Expanded
Course Duration: 4 hours

This is the third course in a six-course set of self-paced courses encompassing 5G SA RAN Signaling and Operations! In this course, you will learn key operations for a device to gain access to the 5G SA network and establish sessions with services networks. You will explore registration including authentication of the user as well as PDU session establishment with a data network. Each course in this six-course set can stand on its own or can be combined with other courses as necessary to meet your learning objectives.

Intended Audience

5G RAN and device engineering, operations, and performance related job functions

Objectives

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

- Identify key steps of registering and authenticating a 5G device in SA network
- Esplain the key steps of setting up PDU session in SA
- List 5G identifiers for device and network and radio states of a 5G device
- Illustrate Quality of Service (QoS) parameters in 5G network

Course Prerequisites

5G NR Air Interface

Outline

1. UE Registration
1.1 5G Identifiers
1.2 Radio states of a UE
1.3 UE registration in 5G
1.4 Authentication and security
1.5 AS and NAS security
Exercise: Registration and authentication signaling flow
Exercise: Registration and AMF selection

2. PDU Session Setup
2.1 5G Quality of Service (QoS)
2.2 PDU Session Setup
Exercise: PDU session establishment signaling flow
Exercise: PDU session setup and SMF selection
Exercise: PDU session setup - DNN, Network Slice, SSC mode

Assessment

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