

5G Signaling

Protocol Architecture and Processes

Understanding a cellular system requires knowledge of the network architecture, interfaces, and key operations. This 5G training explains the tasks of the network functions of the 5G system (5GS), describes the 5G interfaces, their protocol stacks as well as 5G-specific protocols and explains central procedures as well as signaling flows through the entire 5G system.

Course Contents

- 5G Standardization & Specifications
- 5G Network Architecture & Interfaces
- 5G Identities
- PDU Session & QoS Concept
- New Radio, NG-RAN & 5GC Protocol Architecture
- Radio Resource Control (RRC) Protocol & States
- Non-Access Stratum (NAS)
- GPRS Tunneling Protocol for the User Plane (GTP-U)
- Xn- & NG-Application Protocol (Xn-AP & NG-AP)
- Service Based Architecture (SBA)
- Network Function (NF) Services
- 5G State Management
- Connection, Registration & Mobility Management
- 5G Security Functions & Operations
- Registration & Deregistration
- Tracking Areas Updates
- PDU Session Establishment & Release
- Handover

Target Group

This 5G training is designed for anyone who wants to gain an understanding of the network and protocol architecture and signaling flows of 5G.

Prerequisites

Basic knowledge of 5G is essential, such as can be acquired in the 5G Mobile Communications course.

This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

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| 28/09-30/09/26 München | 28/09-30/09/26 Online | |



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