5G Fixed Mobile Convergence

Course Description

This short course is designed to introduce the main concepts behind 5G fixed and mobile convergence technology. This will be considered on a high-level basis, with focus on the technology and the key components. It will also provide an insight into a number of converged use cases as well as an overview of the basic operation.

Prerequisites: Introduction to 5G

Very interesting, sure sparked my interest on 5G.
This course will contain the following sections:

1. 5G Fixed Mobile Convergence

**Topic areas covered include:**

- **Concepts and Drivers:**
  - Driving Factors.
  - Challenges.
  - 5G Fixed Mobile Convergence Standardization.
  - Converged Use Cases.

- **System Architecture:**
  - High Level Architecture:
    - Integrated and interworking models.
    - Trusted Non-3GPP access model.
  - Key Functions:
    - 5G-RG (Residential Gateway).
    - FN-RG (Fixed Network – Residential Gateway).
    - TNAN (Trusted Non-3GPP Access Network).
  - Control and User Plane.

- **5G Fixed Mobile Convergence Procedures:**
  - Registration.
  - Connection Management.
  - Mobility:
    - Area restrictions.

- **Exchanging Data in 5G Fixed Mobile Convergence:**
  - Session Management.
  - QoS Model:
    - Session - Total Maximum Bit Rate.
  - Utilizing PDU Sessions.

- **Interworking:**
  - Hybrid Access.
  - EPC interworking.
  - Fixed Wireless Access.
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