TK522: PS Planning and Optimization

Duration

2.0 Days

Course Content

I. Packet Core Network Essentials

1. PS Core Overview
    - 1.1. PS Core Evolution
    - 1.2. PS Core Architecture
2. PS Core Interfaces and Protocols
    - 2.1. PS Core Interfaces
    - 2.2. PS Core Protocols
3. Mobility and Session Management
    - 3.1. Mobility Management States
    - 3.2. Mobility Management Signaling Procedures
    - 3.3. 2G-3G Interworking inside the SGSN
    - 3.4. Session Management States
    - 3.5. GTP Tunneling
    - 3.6. Session Management Signaling Procedures

II. Packet Core Network Planning & Dimensioning

1. Network Design and Planning Principles
    - 1.1. Planning Process Modules
    - 1.2. Network Analysis Phase
    - 1.3. Network Dimensioning Phase

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1.4. Network Architecture Planning

2. SGSN ATCA Platform Planning

2.1. SGSN ATCA Platform Overview

2.2. SGSN ATCA Platform Capacity and Dimensioning

2.3. SGSN ATCA Platform Gb & lu Interface Planning

3. GGSN ATCA Platform Planning

3.1. GGSN ATCA Platform Overview

3.2. GGSN ATCA Platform Capacity and Dimensioning

3.3. GGSN Security and QoS Aspects

3.4. GGSN Policy and Charging Rules Definition

III. Packet Core Network Optimization Principles

1. PS Core Network Assessment Process

1.1. Topology assessment

1.2. Network Configuration Assessment

1.3. Performance Assessment

2. PS Core Network Optimization Process

2.1. Performance Optimization

2.2. QoS Optimization

3. PS Core Network Common Issues & Possible Solutions

3.1. Possible SGSN Related Issues & Feasible Solutions

3.2. Possible GGSN Related Issues & Feasible Solutions

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