Mobile Systems





The Core Network course cover the R-99 and R-4 network architecture with related node descriptions and explain concepts and services.

OBJECTIVES

Understand UMTS Core Network..

- proceduressignaling and traffic
- external network connections
- services
- charging and billing

TARGET GROUP

People working with GSM/UMTS in..

- service
- management
- development

PRECONDITION

The standard level requires general knowledge in mobile systems and telecommunication

UMTS Core Network



Standard - 2 days

Content day1

x GSM evolution to R-4

- · GSM/GPRS/EDGE/UMTS
- **¤ IP and related protocols** refresh
- · IPv4, IPv6
- · TCP/UDP
- · DNS
- · QoS

x R-4 CN Architecture

- · G/MSC-server
- · MGW
- · SGSN, GGSN
- · Protocols and signaling gateways
- · New interfaces

x Services

- · CAMEL
- SCF, SSF, SRF
- CAP
- · Service nodes
- LCS
- MExE
- USAT
- · OSA principles
- AS, Framework and Network nodes
- · VHE

Content day2

¤ MMS

- · Relay/Server
- · Interfaces and protocols

x Security

- · procedures
 - privacy
 - integrity - authentication
- x Roaming
- · GRX

x Charging and billing

- · CS and PS
- · CDR's, CGF
- \cdot CGF and billing systems
- · pre-paid solutions

x IMS primer

·Features and new nodes

Related Courses: UMTS. IMS

Product

UCN-1:UMTS Core Network (2 days)





"3G systems will provide access, by means of one or more radio links, to a wide range of telecommunication services supported by the fixed telecommunication networks and to other services that are specific to mobile users. A range

of mobile terminal types will be encompassed, linking to terrestrial and/or satellite-based networks, and the terminals may be designed for mobile or fixed use." Federal Communications Commission

UCN-1



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Please call for more information

