

Agenda: 6.2.1

UMTS 22.00

UMTS Phase 1

version 2.0.0

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Scope

- **Definition of the UMTS system in a phased and released approach**
- **TS 22.00 addresses UMTS Phase 1 capabilities for RELEASE'99**
 - **services**
 - **UTRAN capabilities**
 - **UTRAN & GSM BSS relationship**
 - **Core Network**
 - **USIM**
 - **Security features**

Services

- **Support of GSM teleservices :**
 - speech, emergency call, SMS
 - specification of a default speech codec
- **Support of GSM P2+ Release'99 Supplementary Services**
- **Support of GSM P2+ Release'99 data bearer services :**
 - CS, PS
- **New bearer services (UMTS specific)**
- **New services (UMTS specific)**

UTRAN capabilities

- **1 UTRAN per UMTS network**
- **Requirements on UTRAN capabilities :**
 - **allow set-up/re-negotiation/clearing of connections,**
 - **support of connection oriented and connectionless trafic,**
 - **range of trafic and performance characteristics (cf 22.05),**
 - **allow multi-bearers per mobile station,**
 - **seamless hand over within UTRAN,**
 - **location of UMTS mobile termination...**
- **UTRAN and GSM BSS relationship :**
 - **support of dual mode UMTS/GSM terminals,**
 - **support of ho between GSM and UMTS cells (cf 22.29)...**

Core Network

- **Superset of GSM P2+ Release'99 CN**
- **Additional requirements :**
 - support of connection oriented and connectionless traffic,
 - support of CS data service of at least 64 kbit/s,
 - support of PS data service of at least 2 Mbit/s,
 - allow set-up/re-negotiation/clearing of connections,
 - allow multi-bearers per mobile station,
 - VHE,
 - roaming with other GSM and UMTS networks,...

USIM and security features

● USIM

- developed on the basis of the P2+ Release'99 GSM SIM,
- new and enhanced security features (cf SMG10),
- support of P2 and P2+ GSM SIMs as access modules,
- simultaneous activation of several USIMs on one mobile terminal need not be supported,...

● Security features

- list of additional features which may be implemented in UMTS Phase 1 if required by SMG10 (mutual authentication, TTP mechanisms...)