

Agenda: 6.2.3

UMTS 22.05

Services and Service capabilities

version 3.2.0

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Scope

- **Pre-UMTS systems :**
 - **standardisation of a complete set of bearer services, teleservices and supplementary services**
- **UMTS system :**
 - **standardises service capabilities rather than services, allowing service differentiation and system continuity**
- **TS 22.05 describes service capabilities and how and what kind of services the UMTS user has access to**

Framework for the description of telecom services

- **Basic telecommunication services :**
 - bearer services
 - teleservices
- **Supplementary services**
- **Service features**

UMTS Bearer services

- **Definition :**
 - provide the capability for information transfer between access points and involve only low layer functions
- **Description :**
 - information transfer attributes (connection mode, rate,...)
 - information quality attributes (delay, BER,...)
- **Requirements :**
 - supported bit rates (per environment),
 - supported QoS (per environment and connection mode),
 - supported topologies

UMTS Teleservices and Supplementary Services

- **Definition :**
 - provide the full capabilities for communications by means of terminal equipment, network functions and possibly functions provided by dedicated centres
- **Existing (GSM) teleservices supported :**
 - speech, emergency call, SMS
- **Supplementary Services :**
 - support of GSM Phase 2+ SS
 - new SS provision by use of service features
- **Internet access :**
 - specification of an optimised access to Internet

UMTS Service features

● Definition :

- building blocks which can be used to create services
- based on functionality and mechanisms such as provided by SAT, MExE, IN and CAMEL
- building blocks for the VHE

● Service features required for UMTS :

- security/privacy,
- access control,
- address translation,
- call/session/bearer control,
- location
- messaging
- service control
- user intercation

Standardised protocols and capabilities

- **to be supported for the control and creation of services**
- **Access protocols :**
 - shall allow the support of multimedia services,
 - shall allow to change the number of participants and connections during a call,
 - shall allow a mobile station to have several calls active simultaneously,...
- **Execution Environment**
 - distributed between the IC card, terminal and network nodes
 - standardisation of a procedural language, API...

Existing GSM system features

- **List of GSM system features which shall be supported by UMTS networks :**
 - **Network Identity and Time Zone (NITZ),**
 - **Support of Localised Service Area (SoLSA)**
 - **Mobile station Execution Environment (MExE),**
 - **Location Services (LCS),**
 - **CAMEL,**
 - **Unstructured Supplementary Service Data (USSD)**