| | |
|---|---|
| **Technical Specification Group Core Network** | *Tdoc NP-010480* |
| **Technical Specification Group Radio Access Network** | *Tdoc RP-010567* |
| **Technical Specification Group Terminals** | *Tdoc TP-010172* |
| **Technical Specification Group Services and System Aspects** | *Tdoc SP-010418* |

**Meeting #13, Beijing, 18 - 27 September 2001**

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|---|---|
| **Source:** | **MCC**<br>mailto:john.meredith@etsi.fr |
| **Title:** | **3GPP TS 21.103 v1.0.0:**<br>**"3rd Generation mobile system Release 5 specifications"** |
| **Document for:** | **CN: information**<br>**RAN: information**<br>**T: information**<br>**SA: information** |
| **Agenda Item:** | **CN: 11**<br>**RAN: 12**<br>**T: 6**<br>**SA: 8.8** |

TS 21.103 lists the UMTS specifications for Release 5. This is a draft for information, and the table of specs is far from complete. It shows those specs and reports which either exist already or which the TSGs have shown a clear intention of producing.

During the December 2001 meetings - the anticipated freeze date for Release-5 -, the TSGs will be expected to decide on a case by case basis which of the remaining Release-4 specifications are to be migrated to Release-5.

# 3GPP TS 21.103 V1.0.0 (2001-09)

*Technical Specification*

## 3rd Generation Partnership Project;
## Technical Specification Group Services and System Aspects;
## 3rd Generation mobile system Release 5 specifications
## (Release 5)

Keywords
UMTS, architecture

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# Contents

# Foreword

This Technical Specification (TS) has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

# 1 Scope

The present document identifies the 3rd generation mobile system specifications for Release 5. The specifications and reports of 3G Release 5 have a major version number 5 (e.g. 5.x.y).

Most of the core Release 5 Technical Specifications and Technical Reports will be functionally frozen at the 14th Technical Specification Group meetings in December 2001.

NOTE 1: Functionally frozen means that no further functionality/features may be incorporated into the set of specifications, and that only corrective Change Requests (CRs) are to be accepted and agreed.

NOTE 2: It can be expected that corrective CRs will be introduced into the Release 5 version 5.x.y specifications throughout 2002 and beyond.

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TR 21.900: "Technical Specification Group working procedures".

# 3 Abbreviations

For the purposes of the present document, the terms and definitions given in 3GPP TS 21.905 [1] apply.

# 4 General

Release 5 consists of 3G-only specifications and the GSM Core Network specifications developed for both GSM Release 5 and Release 5 of the 3rd Generation mobile system.

The present document identifies the 3G system set of specifications required to implement Release 5.

The numbering scheme for specifications is described in 3GPP TR 21.900 [2].

# 5 Specifications and Reports of 3G Release 5

NOTE 1: The final column of the table below indicates whether or not the documents are intended for adoption by the partner Standards Development Organizations as their own publications. Those marked "no" are internal working documents of the 3GPP TSGs.

NOTE 2: Some of the algorithm specifications in the 35.-series are available only under licence.

NOTE 3: "Type" indicates Technical Specification (TS) or Technical Report (TR).

| Type | Number | Title | WG prime | For publication |
|---|---|---|---|---|
| TS | 21.103 | 3rd Generation mobile system Release 5 specifications | SP | Yes |
| TR | 21.905 | Vocabulary for 3GPP Specifications | S1 | Yes |
| TS | 22.038 | USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1 | S1 | Yes |
| TS | 22.057 | Mobile Execution Environment (MExE); Stage 1 | S1 | Yes |
| TS | 22.078 | CAMEL; Stage 1 | S1 | Yes |
| TS | 22.101 | Service aspects; Service principles | S1 | Yes |
| TS | 22.115 | Service Aspects Charging and billing | S1 | Yes |
| TS | 22.121 | Service aspects; The Virtual Home Environment; Stage 1 | S1 | Yes |
| TS | 22.127 | Service Requirement for the Open Services Access (OSA); Stage 1 | S1 | Yes |
| TS | 22.141 | Support of Presence Capability (SOP); stage 1 | S1 | Yes |
| TS | 22.146 | Multimedia Broadcast/Multicast Service; Stage 1 | S1 | Yes |
| TS | 22.226 | Global text telephony; Stage 1: Service description | S1 | Yes |
| TS | 22.228 | IP multimedia subsystem; Stage 1 | S1 | Yes |
| TR | 22.928 | IP-based multimedia services examples | S1 | Yes |
| TR | 22.941 | IP based multimedia framework specifications | S1 | Yes |
| TR | 22.946 | Broadcast and multicast services | S1 | Yes |
| TS | 23.002 | Network Architecture | S2 | Yes |
| TS | 23.003 | Numbering, Addressing and Identification | N4 | Yes |
| TS | 23.018 | Basic Call Handling; Technical realization | N4 | Yes |
| TS | 23.040 | Technical realization of Short Message Service (SMS) | T2 | Yes |
| TS | 23.048 | Security Mechanisms for SIM Toolkit Application; Stage 2 | T3 | Yes |
| TS | 23.084 | MultiParty (MPTY) Supplementary Service; Stage 2 | N4 | Yes |
| TS | 23.107 | Quality of Service (QoS) concept and architecture | S2 | Yes |
| TS | 23.207 | End to end quality of service concept and architecture | S2 | Yes |
| TS | 23.218 | IP Multimedia (IM) session handling; IM call model | N1 | Yes |
| TS | 23.221 | Architectural requirements | S2 | Yes |
| TS | 23.226 | Global text telephony; Stage 2: Architecture | N4 | Yes |
| TS | 23.228 | IP multimedia subsystem; Stage 2 | S2 | Yes |
| TS | 23.236 | Intra-domain connection of radio access network nodes to multiple core network nodes | S2 | Yes |
| TS | 23.271 | Functional stage 2 description of location services | S2 | Yes |
| TR | 23.915 | Charging implications of IMS architecture | S2 | Yes |
| TR | 23.955 | Virtual Home Environment (VHE) concepts | S2 | Yes |
| TR | 23.974 | Support of push service | S2 | Yes |
| TS | 24.008 | Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3 | N1 | Yes |
| TS | 24.228 | Signalling flows for the IP multimedia call control based on SIP and SDP; stage 3 | N1 | Yes |
| TS | 24.229 | IP Multimedia Call Control Protocol based on SIP and SDP; stage 3 | N1 | Yes |
| TS | 25.305 | Stage 2 functional specification of UE positioning in UTRAN | R2 | Yes |
| TS | 25.308 | High speed downlink packet access | R2 | Yes |
| TS | 25.401 | UTRAN Overall Description | R3 | Yes |
| TS | 25.450 | UTRAN Iupc interface general aspects and principles | R3 | Yes |
| TS | 25.451 | UTRAN Iupc interface layer 1 | R3 | Yes |
| TS | 25.452 | UTRAN Iupc interface signalling transport | R3 | Yes |
| TS | 25.453 | UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling | R3 | Yes |
| TR | 25.854 | Uplink Synchronous Transmission Scheme (USTS) | R1 | No |
| TR | 25.855 | High Speed Downlink Packet Access (HSDPA); Overall UTRAN description | R2 | No |

| Type | Number | Title | WG prime | For publication |
|---|---|---|---|---|
| TR | 25.856 | High Speed Downlink Packet Access (HSDPA); Layer 2 and 3 aspects hans | R2 | No |
| TR | 25.857 | UE positioning enhancements | R2 | No |
| TR | 25.858 | Physical layer aspects of UTRA High Speed Downlink Packet Access | R1 | No |
| TR | 25.859 | User Equipment positioning enhancements for 1,28 Mcps TDD | R2 | No |
| TR | 25.868 | Node B synchronization for 1,28 Mcps, TDD | R1 | No |
| TR | 25.869 | RAN WG1 report on Tx diversity solutions for multiple antennas | R1 | No |
| TR | 25.870 | Enhancement on the DSCH Hard Split mode | R1 | No |
| TR | 25.875 | NAS node selector function | R3 | No |
| TR | 25.876 | Multiple-Input Multiple-Output Antenna Processing for HSDPA | R1 | No |
| TR | 25.877 | High Speed Downlink Packet Access (HSDPA) - Iub/Iur Protocol Aspects | R3 | No |
| TR | 25.878 | RL Timing Adjustment | R3 | No |
| TR | 25.879 | Separation of resource reservation and radio link activation | R3 | No |
| TS | 25.880 | Traffic Termination Point Swapping | R3 | No |
| TR | 25.881 | Improvement of Radio Resource Management across RNS and RNS/BSS | R3 | No |
| TR | 25.882 | 1,28 Mcps TDD option base station classification | R4 | No |
| TR | 25.883 | Direct Transport Bearers Between SRNC and Node-B | R3 | No |
| TR | 25.884 | Iur Neighbouring cell reporting efficiency optimisation | R3 | No |
| TR | 25.952 | Base Station classification (TDD) | R4 | Yes |
| TR | 25.991 | Feasibility study on the mitigation of the effect of common pilot channel (CPICH) interference at the user equipment | R4 | Yes |
| TS | 26.103 | Codec lists | S4 | Yes |
| TS | 26.131 | Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics | S4 | Yes |
| TS | 26.132 | Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification. | S4 | Yes |
| TS | 26.171 | AMR speech codec, wideband; General description | S4 | Yes |
| TS | 26.173 | AMR speech codec, wideband; C-source code | S4 | Yes |
| TS | 26.174 | AMR speech codec, wideband; Test sequences | S4 | Yes |
| TS | 26.190 | Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Transcoding functions | S4 | Yes |
| TS | 26.191 | AMR speech codec, wideband; Error concealment of lost frames | S4 | Yes |
| TS | 26.192 | Mandatory Speech Codec speech processing functions AMR Wideband Speech Codec; Comfort noise aspects | S4 | Yes |
| TS | 26.193 | AMR speech codec, wideband; Source Controlled Rate operation | S4 | Yes |
| TS | 26.194 | Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Voice Activity Detector (VAD) | S4 | Yes |
| TS | 26.201 | AMR speech codec, wideband; Frame structure | S4 | Yes |
| TS | 26.202 | AMR speech codec, wideband; Interface to Iu and Uu | S4 | Yes |
| TS | 26.226 | Global text telephony;Transport of text in the voice channel | S4 | Yes |
| TS | 26.230 | Global text telephony; Cellular text telephone modem transmitter C-code description description | S4 | Yes |
| TS | 26.231 | Global text telephony; Cellular text telephone modem minimum performance requirements | S4 | Yes |
| TS | 26.235 | Packet switched conversational multimedia applications; Default codecs | S4 | Yes |
| TR | 26.976 | Results of the AMR wideband (AMR-W) selection phase | S4 | Yes |
| TS | 27.104 | vObjects and other constructs for data synchronization | T2 | Yes |
| TS | 29.162 | Interworking between the IM CN subsystem and IP networks | N3 | Yes |
| TS | 29.163 | Interworking between the IM CN subsystem and CS networks | N3 | Yes |
| TS | 29.198-09 | Open Service Access (OSA) Application Programming Interface (API); Part 9: Generic messaging SCF | N5 | Yes |
| TS | 29.198-10 | Open Service Access (OSA) Application Programming Interface (API); Part 10: Connectivity manager SCF | N5 | Yes |
| TS | 29.207 | End to end quality of service; stage 3 | N3 | Yes |
| TS | 29.226 | reserved | N4 | Yes |
| TS | 29.228 | IP Multimedia (IM) Subsystem Cx Interface; Signalling flows and message contents | N4 | Yes |
| TS | 29.229 | Cx Interface based on the DIAMETER protocol; Protocol details | N4 | Yes |
| TR | 29.903 | Feasibility study on SS7 signalling transportation in the core network with SCCP-User Adaptation (SUA) | N4 | Yes |

| Type | Number | Title | WG prime | For publication |
|---|---|---|---|---|
| TR | 29.998-04-2 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 2: | N5 | Yes |
| TR | 29.998-05-2 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 2: | N5 | Yes |
| TR | 29.998-05-3 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 3 | N5 | Yes |
| TS | 31.114 | USAT interpreter protocol and administration | T3 | Yes |
| TS | 32.112 | Telecommunication Management; Fault Management; Alarm Integration Reference Point: Information Service | S5 | Yes |
| TS | 32.113 | Telecommunication Management; Fault Management; Alarm Integration Reference Point: CORBA solution set version 1:1 | S5 | Yes |
| TS | 32.114 | Telecommunication Management; Fault Management; Alarm Integration Reference Point: CMIP solution set | S5 | Yes |
| TS | 32.140 | 3G Service Management Requirements & Framework | S5 | Yes |
| TS | 32.225 | Telecom management; Charging management; Charging data description for the IMS domain | S5 | Yes |
| TS | 33.106 | Lawful interception requirements | S3 | Yes |
| TS | 33.107 | Lawful interception architecture and functions | S3 | Yes |
| TS | 33.108 | Lawful Interception; Interface between core network and law agency equipment | S3 | Yes |
| TS | 33.201 | Access domain security | S3 | Yes |
| TS | 33.203 | Access Security for IP based services | S3 | Yes |
| TS | 33.210 | Network Domain Security - IP | S3 | Yes |
| TR | 33.800 | Principles for Network Domain Security | S3 | No |
| TR | 33.900 | Guide to 3G security | S3 | Yes |
| TR | 33.903 | Access Security for IP based services | S3 | Yes |

# Annex A (informative): Change history

| Change history | | | | | |
|---|---|---|---|---|---|
| **TSG SA#** | **Version** | **CR** | **Tdoc SA** | **New Version** | **Subject/Comment** |
| SP-12 | 0.0.0 | - | SP-010275 | | First draft |
| SP-12 | 0.1.0 | | SP-010382 | | table of specs revised |
| SP-13 | 1.0.0 | | SP-010418 | | table of specs revised |
| | | | | | |