

**3GPP TSG SA
BANGKOK, THAILAND, 11-14/12/2000**

Document SP-000695

e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

23.101 CR 1 Rev 3

Current Version: **3.0.1**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to:
list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects:
(at least one should be marked with an X)

(U)SIM ME UTRAN / Radio Core Network

Source: Alcatel

Date: 31/10/00

Subject: Incorporation of the UE definition

Work item:

Category:

- F Correction
- A Corresponds to a correction in an earlier release
- B Addition of feature
- C Functional modification of feature
- D Editorial modification

(only one category shall be marked with an X)

Release:

- Phase 2
- Release 96
- Release 97
- Release 98
- Release 99
- Release 00

Reason for change:

This definition of the UE has not been incorporated in the vocabulary document even though agreed in principle at TSG SA#5. It was then felt more relevant to introduce it in 23.101

Clauses affected:

5.2

Other specs affected:

- Other 3G core specifications → List of CRs:
- Other GSM core specifications → List of CRs:
- MS test specifications → List of CRs:
- BSS test specifications → List of CRs:
- O&M specifications → List of CRs:

Other comments:

None



help.doc

<----- double-click here for help and instructions on how to create a CR.

5.2 User equipment Domain

This domain encompasses a variety of equipment types with different levels of functionality. These equipment types are referred to as user equipment (terminals), and they may also be compatible with one or more existing access (fixed or radio) interfaces e.g. dual mode UMTS-GSM user equipment. The user equipment may include a removable smart card that may be used in different user equipment types. The user equipment is further sub-divided into the **Mobile Equipment Domain** (ME) and the **User Services Identity Module Domain** (USIM).

The reference point between the ME and the USIM is termed the “Cu” reference point.

For the purpose of UMTS Cellular networks the following definition applies:

User Equipment is a device allowing a user access to network services.

For the purpose of 3GPP specifications the interface between the UE and the network is the radio interface.

A User Equipment can be subdivided into a number of domains, the domains being separated by reference points.

Currently defined domains are the USIM and ME Domains.

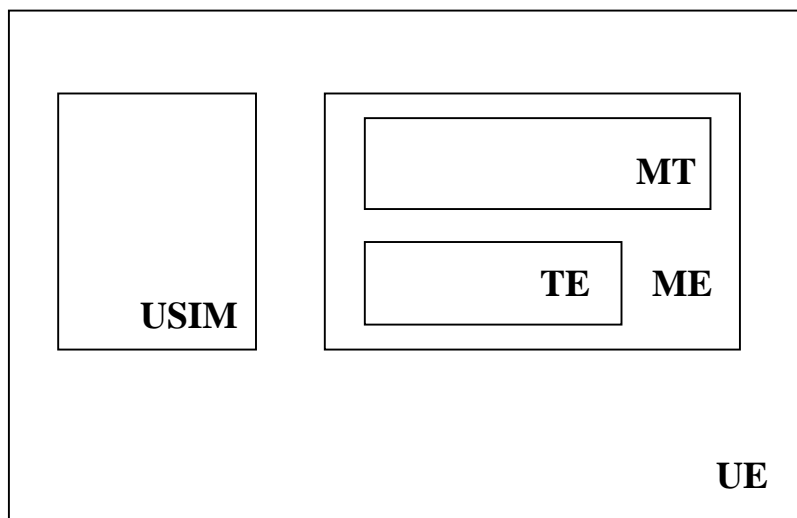
The ME Domain can further be subdivided into several components showing the connectivity between multiple functional groups. These groups can be implemented in one or more hardware devices.

An example of such a connectivity is the TE – MT interface.

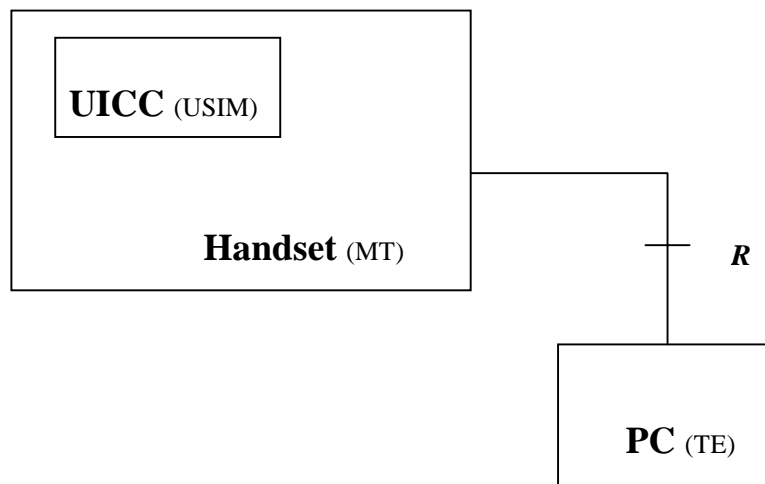
Further, an occurrence of User Equipment is an MS for GSM as defined in GSM TS 04.02.

Editor’s Note: To handle references from the GSM specifications an explanatory sentence is proposed to be added: “The term ‘User Equipment’, or ‘UE,’ should for GSM be interpreted as ‘MS’, as defined in GSM TS 024.002”.

The figure below shows the **Functional Model** for the User Equipment, UE.



The 07-, 27-, and 47-series refer to physical instances of this Functional Model. The figure below shows an **example of a physical configuration** as it could be used in these specifications. The boxes, in this figure, refer to physical elements. The names within brackets are just provided to map the functional blocks from the figure above onto physical elements.



5.2.1 Mobile equipment Domain

The Mobile Equipment performs radio transmission and contains applications. The mobile equipment may be further sub-divided into several entities, e.g. the one which performs the radio transmission and related functions, **Mobile Termination**, MT, and the one which contains the end-to-end application or (e.g. laptop connected to a mobile phone), **Terminal Equipment**, TE. This separation is used in the description of the functional communication in figure 3 but no reference point is defined in this specification.

5.2.2 USIM Domain

The USIM contains data and procedures which unambiguously and securely identify itself. These functions are typically embedded in a stand alone smart card. This device is associated to a given user, and as such allows to identify this user regardless of the ME he uses.