

3GPP SA#10

SP-000668

3GPP TSG SA WG2
MAKUHARI, JAPAN, 13-17/11/2000

Document **S200-1804**

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

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: for approval
list expected approval meeting # here ↑ for information strategic (for SMG use only)
non-strategic

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

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: Alcatel **Date:** 31/10/00

Subject: Incorporation of the UE definition

Work item:

Category:	F Correction	<input checked="" type="checkbox"/>	Release:	Phase 2	<input type="checkbox"/>
(only one category shall be marked with an X)	A Corresponds to a correction in an earlier release	<input type="checkbox"/>		Release 96	<input type="checkbox"/>
	B Addition of feature	<input type="checkbox"/>		Release 97	<input type="checkbox"/>
	C Functional modification of feature	<input type="checkbox"/>		Release 98	<input type="checkbox"/>
	D Editorial modification	<input type="checkbox"/>		Release 99	<input checked="" type="checkbox"/>
				Release 00	<input type="checkbox"/>

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	<input type="checkbox"/>	→ List of CRs:	<input type="text"/>
	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	<input type="text"/>
	MS test specifications	<input type="checkbox"/>	→ List of CRs:	<input type="text"/>
	BSS test specifications	<input type="checkbox"/>	→ List of CRs:	<input type="text"/>
	O&M specifications	<input type="checkbox"/>	→ List of CRs:	<input type="text"/>

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 in to 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.

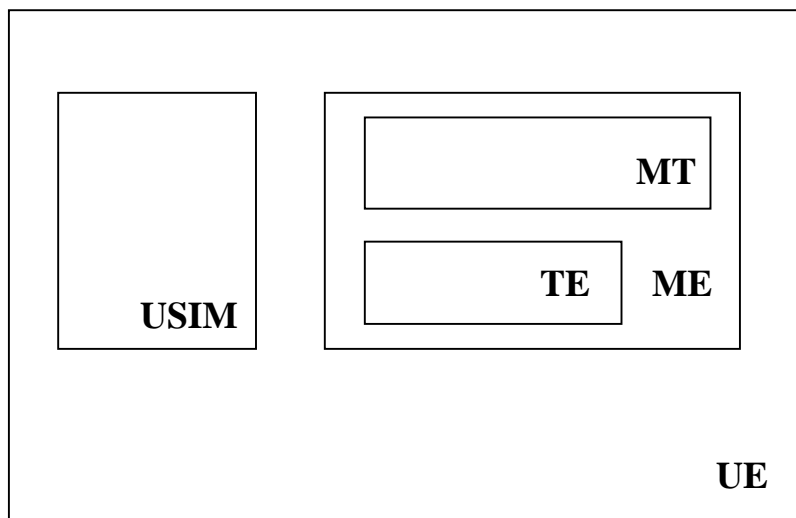
The ME Domain can further be subdivided into several components showing the connectivity between multiple functional groups. These groups can be implemented in one or more hardware devices.

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

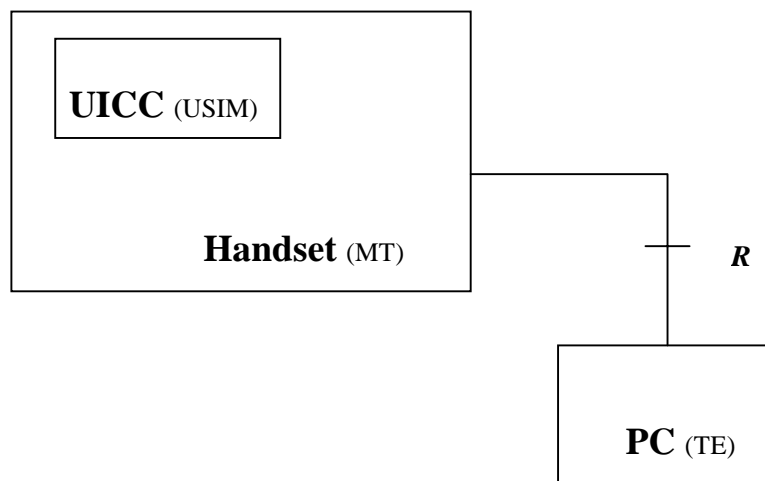
Further, an occurrence of User Equipment is an MS for GSM as defined in GSM TS 04.02.

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 04.02”.

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.



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.