S1 CRs PRESENTED FOR APPROVAL AT SA#4 in MIAMI, FLORIDA

ETSI TC SMG#29 TSG S#4 (99) 233

Miami, Florida, USA 21st – 23rd June, 1999

Agenda Item: 5.1

Source: S1

Title: CR on Security requirements for 3G Phase 1 R99

Document for: Approval

SA_TdocDocSpec_CR#RVersCNewTopicSP-9923336622.100A0173.3.0C3.4.0SecurityCR on security requirements for UMTS Phase 1 Release 99: To align the specification with

the fact that S3 defines security requirements for UMTS Phase 1 Release 99.

TSG-SA Working Group 1 (Services) meeting #3 Hampton Court, Surrey, UK 10th-12th May 1999

TSG_SA_WG1 Edinburgh 8-12 March 1999

TSGS1#3(99)366

Agenda: 6.1.4 S1-99 148 Agenda: 9.0.6

	CHANGE REQUEST No:				A017 Please see embedded help file at the bottom page for instructions on how to fill in this form				
Technical Specification GSM 22.100 Version: 3.3.0									
Submitted to TSG		#4	for approval X without presentation					-strategic")	
SA list SMG plenary meeting n		o. here↑	for information with present				sentation ("strategic")	X
			PT SMG CR cover f	orm is available	e from: http://do	ocbox.etsi.org/tech	-org/smg/Docume	ent/smg/tools/CR_form/	crf28_1.zip
Proposed change affects: SIM ME X Network X (at least one should be marked with an X)									
Work item:	UMTS Release 99 Requirements								
Source:	Rapporteur of 22.100 S1 Date: 12 th March 1999							999	
Subject:	Rewriting of section 11 about security requirements. Adding of reference to S3 specification 21.133 for security requirements for REL99.								
Category: (one category and one release only shall be marked with an X)	F Correction A Corresponds to a correction in an earlier release B Addition of feature C Functional modification of feature D Editorial modification Release: Releas							X	
Reason for change:	To align the specification with the fact that S3 defines security requirements for UMTS Phase 1 Release 99.								
Clauses affected: section 11									
Other specs affected:	Other releases of same spec Other core specifications MS test specifications / TBRs BSS test specifications O&M specifications → List of CRs:								
Other comments:									
help.doc									

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

1 Scope

The UMTS system will be defined in a phased approach. This document specifies the content of the first phase of requirements for UMTS. Some requirements affecting phase 1 to ensure a smooth transition to later releases are also indicated.

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.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

2.1 Normative references

This document is the starting point of the set of specifications that define the UMTS Service Requirements for UMTS Phase 1. The UMTS Service requirements for UMTS phase 1 are defined in the following normative specifications.

[1]	UMTS 22.01: "Universal Mobile Telecommunications System (UMTS): Service aspects; Service principles".
[2]	UMTS 22.05: "Universal Mobile Telecommunications System (UMTS); Services and Service Capabilities".
[3]	UMTS 22.15: "Universal Mobile Telecommunications System (UMTS); Service Aspects: Charging and Billing".
[4]	UMTS 22.20: "Universal Mobile Telecommunications System (UMTS); VHE Stage 1".
[5]	[UMTS TS ??.??, Handover requirements between UMTS and GSM or other Radio System]".
[6]	UMTS 21.133 : "Universal Mobile Telecommunications System (UMTS) ; Security threats and requirements"

These specifications may refer (directly or indirectly) to further specifications which provide detailed descriptions of service requirements incorporated in UMTS. In particular the service requirements of any GSM component of a UMTS system are specified by reference to GSM service requirements specifications.

11 Security Features

With respect to the GSM security mechanisms the following additional features may be implemented for UMTS phase 1 if required by SMG10:. Security requirements for UMTS Phase 1 Release 99 are defined in the UMTS 21.133 specification [6].

- 1) Mutual authentication between user and serving network, between user and home environment and between serving network and home environment
- 2) Confidentiality of user and signalling data to and within the access network (and possibly into the core network)
- 3) End to end encryption (as an optional service) between UMTS users, with access to plaintext for lawful interception purposes
- 4) TTP (trusted 3rd party) mechanisms, including public key techniques and associated certificates and signing, verification and revocation procedures used, for example, before accessing 3rd party services.
- 5) Authentication, confidentiality and integrity of signalling between UMTS network (both core and access) nodes
- 6) Confidentiality of the user identity on the radio interface.