

**Source :** S1  
**To :** S3  
**cc :** SMG1  
**Title :** LS on security requirements for UMTS Phase 1 Release 99

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The specification UMTS 22.100 addresses the UMTS Phase 1 capabilities for RELEASE 99. The section 11 of this specification deals with security requirements.

S1 would like to remind that it is extremely important to clarify now all the capability requirements for Release 99 in order to leave time enough to other WGs to complete the specifications before the end of this year.

S3 has been mandated to define security requirements for UMTS. S1 wants to inform S3 that it has modified the section 11 of TS 22.100 and that the new content only refers to S3 specifications (see attached proposed CR). However, S1 has been aware that S3 has not yet clarified the requirements for Release 99 and then would like to remind S3 that it is urgent to clarify them.

Once the security requirements for Release 99 have been clarified by S3, S1 would be interested to receive a response to this LS listing these requirements and the specifications these requirements are set in.

**TSG-SA Working Group 1 (Services) meeting #3**  
 Hampton Court, Surrey, UK 10<sup>th</sup>-12<sup>th</sup> May 1999  
 TSG\_SA\_WG1  
 Edinburgh  
 Agenda: 9.0.6  
 8-12 March 1999

**TSGS1#3(99)344**  
 Agenda: 6.1.4  
**S1-99 148**

<b>CHANGE REQUEST No :</b> <input type="text"/>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>
Technical Specification GSM	<input type="text" value="22.100"/>	Version: <input type="text" value="3.3.0"/>
Submitted to TSG #4 <input type="text"/>	for approval <input checked="" type="checkbox"/>	without presentation ("non-strategic") <input type="checkbox"/>
SA <input type="text"/>	for information <input type="checkbox"/>	with presentation ("strategic") <input checked="" type="checkbox"/>
<small>list SMG plenary meeting no. here ↑</small>		
<small>PT SMG CR cover form is available from: <a href="http://docbox.etsi.org/tech-org/smg/Document/smg/tools/CR_form/crf28_1.zip">http://docbox.etsi.org/tech-org/smg/Document/smg/tools/CR_form/crf28_1.zip</a></small>		

**Proposed change affects:** SIM  ME  Network   
(at least one should be marked with an X)

**Work item:** UMTS Release 99 Requirements

**Source:** Rapporteur of 22.100 **Date:** 12<sup>th</sup> March 1999

**Subject:** Rewriting of section 11 about security requirements.  
 Adding of reference to S3 specifications for security requirements for REL99.

<b>Category:</b>	F Correction	<input type="checkbox"/>	<b>Release:</b>	Phase 2	<input type="checkbox"/>
<small>(one category and one release only shall be marked with an X)</small>	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 checked="" type="checkbox"/>		Release 98	<input type="checkbox"/>
	D Editorial modification	<input type="checkbox"/>		Release 99	<input checked="" type="checkbox"/>

**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

<b>Other specs affected:</b>	Other releases of same spec	<input type="checkbox"/>	→ List of CRs:	<input type="text"/>
	Other core specifications	<input type="checkbox"/>	→ List of CRs:	<input type="text"/>
	MS test specifications / TBRs	<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:**



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



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# 11 Security Features

With respect to the GSM security mechanisms, ~~the following~~ additional features ~~may be implemented~~ will apply for UMTS phase 1 ~~if required by SMG10~~. Security requirements for UMTS Phase 1 Release 99 are set in TSG SA WG3 specifications.

- ~~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.~~