Technical Specification Group Services and System Aspects
Meeting #10, Bangkok, Thailand, 11-14 December 2000

TSGS#9(00) 0533

Source:	**TSG SA1**	
Title:	**CRs to 22.101 on Deleting Encrypted USIM-ME interface (R99)**	
Document for:	**Approval**	
Agenda Item:	**7.1.3**	

Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc. No.
22.101	057		R99	F	Deleting Encrypted USIM-ME interface	3.11.0	3.12.0	S1-000797
22.101	058		R4	A	Deleting Encrypted USIM-ME interface	4.1.0	4.2.0	S1-000798
22.101	059		R5	A	Deleting Encrypted USIM-ME interface	5.0.0	5.1.0	S1-000799

CR-Form-v3

CHANGE REQUEST

✎ **22.101 CR 057** ✎ rev **-** ✎ Current version: **3.11.0** ✎

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ✎ symbols.*

Proposed change affects: ✎ (U)SIM **X** ME/UE **X** Radio Access Network ☐ Core Network ☐

Title: ✎	Corrective CR to 22.101 for R99 regarding UE/USIM interface encryption
Source: ✎	SA1
Work item code: ✎ TEI	**Date:** ✎ 17/11/2000
Category: ✎ **F**	**Release:** ✎ R99

Use <u>one</u> of the following categories:
    F *(essential correction)*
    A *(corresponds to a correction in an earlier release)*
    B *(Addition of feature)*,
    C *(Functional modification of feature)*
    D *(Editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
    2   (GSM Phase 2)
    R96   (Release 1996)
    R97   (Release 1997)
    R98   (Release 1998)
    R99   (Release 1999)
    REL-4 (Release 4)
    REL-5 (Release 5)

Reason for change: ✎	Removal of requirement for an encrypted data interface between USIM and UE which is considered not necessary from a security point of view (ref Tdoc S1-000683).
Summary of change: ✎	Removal of text regarding encrypted USIM/UE interface as mandatory requirement
Consequences if not approved: ✎	22.101 R99 will include an unecessary requirement that is not implemented.

Clauses affected: ✎	13
Other specs affected: ✎	☐ Other core specifications ✎ ☐ Test specifications ☐ O&M Specifications
Other comments: ✎	

**** Modification****

13 Types of features of UEs

3GPP specifications should support a wide variety of user equipment, i.e. setting any limitations on terminals should be avoided as much as possible. For example user equipment like hand-portable phones, personal digital assistants and laptop computers can clearly be seen as likely terminals.

In order not to limit the possible types of user equipment they are not standardised. The UE types could be categorised by their service capabilities rather than by their physical characteristics. Typical examples are speech only UE, narrowband data UE, wideband data UE, data and speech UE, etc..

In order to enhance functionality split and modularity inside the user equipment the interfaces of UE should be identified. Interfaces like UICC-interface, PCMCIA-interface and other PC-interfaces, including software interfaces, should be covered by references to the applicable interface standards.

UEs have to be capable of supporting a wide variety of teleservices and applications provided in PLMN environment. Limitations may exist on UEs capability to support all possible teleservices and information types (speech, narrowband data, wideband data, video, etc.) and therefore functionality to indicate capabilities of a UE shall be specified. UEs should be capable of supporting new supplementary services without any changes in UE.

The basic mandatory UE requirements are:

? ~~Encrypted terminal-UICC interface;~~

? Support for GSM phase 2 and 2+ SIM cards, phase 1 5V SIM cards shall not be supported;

? Home environment and serving network registration and deregistration;

? Location update;

? Originating or receiving a connection oriented or a connectionless service;

? An unalterable equipment identification; IMEI, see TS 22.016 [12];

? Basic identification of the terminal capabilities related to services such as; the support for software downloading, application execution environment/interface, MExE terminal class, supported bearer services.

? Terminals capable for emergency calls shall support emergency call without a SIM/USIM.

? Support for the execution of algorithms required for encryption, for CS and PS services. Support for non encrypted mode is required;

? Support for the method of handling automatic calling repeat attempt restrictions as specified in TS 22.001 [4];

? At least one capability type shall be standardised for mobile terminals supporting the GRAN and UTRAN radio interfaces.

? Under emergency situations, it may be desirable for the operator to prevent UE users from making access attempts (including emergency call attempts) or responding to pages in specified areas of a network, see TS 22.011 [11];

? Ciphering Indicator for terminals with a suitable display;
The ciphering indicator feature allows the ME to detect that ciphering is not switched on and to indicate this to the user. The ciphering indicator feature may be disabled by the home network operator setting data in the SIM/USIM. If this feature is not disabled by the SIM, then whenever a connection is in place, which is, or becomes unenciphered, an indication shall be given to the user. Ciphering itself is unaffected by this feature, and the user can choose how to proceed;

? Support for PLMN selection.

Annex A describes a number of features which may optionally be supported by the ME.

**** End of Document****

<div style="text-align:right">*CR-Form-v3*</div>

CHANGE REQUEST

✎ **22.101** CR **058** ✎ rev **-** ✎ Current version: **4.1.0** ✎

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ✎ symbols.*

Proposed change affects: ✎ (U)SIM **X** ME/UE **X** Radio Access Network ☐ Core Network ☐

Title: ✎	Corrective CR to 22.101 for R4 regarding UE/USIM interface encryption
Source: ✎	SA1
Work item code: ✎	TEI4
Date: ✎	17/11/2000
Category: ✎	**A**
Release: ✎	REL-4

Use *one* of the following categories:
F *(essential correction)*
A *(corresponds to a correction in an earlier release)*
B *(Addition of feature),*
C *(Functional modification of feature)*
D *(Editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use *one* of the following releases:
2   (GSM Phase 2)
R96   (Release 1996)
R97   (Release 1997)
R98   (Release 1998)
R99   (Release 1999)
REL-4   (Release 4)
REL-5   (Release 5)

Reason for change: ✎	Removal of requirement for an encrypted data interface between USIM and UE which is considered not necessary from a security point of view (ref Tdoc S1-000683).
Summary of change: ✎	Removal of text regarding encrypted USIM/UE interface as mandatory requirement
Consequences if not approved: ✎	22.101 R4 will include an unecessary requirement that is not implemented.

Clauses affected: ✎	13
Other specs affected: ✎	☐ Other core specifications ✎
	☐ Test specifications
	☐ O&M Specifications
Other comments: ✎	

**** Modification****

---

13 Types of features of UEs

3GPP specifications should support a wide variety of user equipment, i.e. setting any limitations on terminals should be avoided as much as possible. For example user equipment like hand-portable phones, personal digital assistants and laptop computers can clearly be seen as likely terminals.

In order not to limit the possible types of user equipment they are not standardised. The UE types could be categorised by their service capabilities rather than by their physical characteristics. Typical examples are speech only UE, narrowband data UE, wideband data UE, data and speech UE, etc..

In order to enhance functionality split and modularity inside the user equipment the interfaces of UE should be identified. Interfaces like UICC-interface, PCMCIA-interface and other PC-interfaces, including software interfaces,

should be covered by references to the applicable interface standards.

UEs have to be capable of supporting a wide variety of teleservices and applications provided in PLMN environment. Limitations may exist on UEs capability to support all possible teleservices and information types (speech, narrowband data, wideband data, video, etc.) and therefore functionality to indicate capabilities of a UE shall be specified.

The basic mandatory UE requirements are:

? ~~Encrypted terminal-UICC interface;~~

? Support for GSM phase 2 and 2+ SIM cards, phase 1 5V SIM cards shall not be supported;

? Home environment and serving network registration and deregistration;

? Location update;

? Originating or receiving a connection oriented or a connectionless service;

? An unalterable equipment identification; IMEI, see TS 22.016 [12];

? Basic identification of the terminal capabilities related to services such as; the support for software downloading, application execution environment/interface, MExE terminal class, supported bearer services.

? Terminals capable for emergency calls shall support emergency call without a SIM/USIM.

? Support for the execution of algorithms required for encryption, for CS and PS services. Support for non encrypted mode is required;

? Support for the method of handling automatic calling repeat attempt restrictions as specified in TS 22.001 [4];

? At least one capability type shall be standardised for mobile terminals supporting the GERAN and UTRAN radio interfaces.

? Under emergency situations, it may be desirable for the operator to prevent UE users from making access attempts (including emergency call attempts) or responding to pages in specified areas of a network, see TS 22.011 [11];

? Ciphering Indicator for terminals with a suitable display;
The ciphering indicator feature allows the ME to detect that ciphering is not switched on and to indicate this to the user. The ciphering indicator feature may be disabled by the home network operator setting data in the SIM/USIM. If this feature is not disabled by the SIM, then whenever a connection is in place, which is, or becomes unenciphered, an indication shall be given to the user. Ciphering itself is unaffected by this feature, and the user can choose how to proceed;

? Support for PLMN selection.

Annex A describes a number of features which may optionally be supported by the ME.

**** End of Document****

3GPP TSG-SA1 Meeting #10   *Tdoc DocNumber 799/00*
Orlando, USA, 14/11/00

CR-Form-v3

CHANGE REQUEST

| ✎ | **22.101** CR | **059** | ✎ | rev | **-** | ✎ | Current version: | **5.0.0** | ✎ |

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ✎ symbols.*

Proposed change affects: ✎   (U)SIM **X**   ME/UE **X**   Radio Access Network ☐   Core Network ☐

Title: ✎	Corrective CR to 22.101 for R5 regarding UE/USIM interface encryption
Source: ✎	SA1
Work item code: ✎ TEI4	**Date:** ✎ 17/11/2000
Category: ✎ **A**	**Release:** ✎ Rel-5

Use *one* of the following categories:
F *(essential correction)*
A *(corresponds to a correction in an earlier release)*
B *(Addition of feature),*
C *(Functional modification of feature)*
D *(Editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use *one* of the following releases:
2   *(GSM Phase 2)*
R96   *(Release 1996)*
R97   *(Release 1997)*
R98   *(Release 1998)*
R99   *(Release 1999)*
REL-4   *(Release 4)*
REL-5   *(Release 5)*

Reason for change: ✎	Removal of requirement for an encrypted data interface between USIM and UE which is considered not necessary from a security point of view (ref Tdoc S1-000683).
Summary of change: ✎	Removal of text regarding encrypted USIM/UE interface as mandatory requirement
Consequences if not approved: ✎	22.101 R5 will include an unecessary requirement that is not implemented.

Clauses affected: ✎	14
Other specs affected: ✎	☐ Other core specifications ✎ ☐ Test specifications ☐ O&M Specifications
Other comments: ✎	

**** Modification****

---

14   Types of features of UEs

3GPP specifications should support a wide variety of user equipment, i.e. setting any limitations on terminals should be avoided as much as possible. For example user equipment like hand-portable phones, personal digital assistants and laptop computers can clearly be seen as likely terminals.

In order not to limit the possible types of user equipment they are not standardised. The UE types could be categorised by their service capabilities rather than by their physical characteristics. Typical examples are speech only UE, narrowband data UE, wideband data UE, data and speech UE, etc..

In order to enhance functionality split and modularity inside the user equipment the interfaces of UE should be identified. Interfaces like UICC-interface, PCMCIA-interface and other PC-interfaces, including software interfaces,

should be covered by references to the applicable interface standards.

UEs have to be capable of supporting a wide variety of teleservices and applications provided in PLMN environment. Limitations may exist on UEs capability to support all possible teleservices and information types (speech, narrowband data, wideband data, video, etc.) and therefore functionality to indicate capabilities of a UE shall be specified.

The basic mandatory UE requirements are:

? ~~Encrypted terminal-UICC interface;~~
? Support for GSM phase 2 and 2+ SIM cards, phase 1.5V SIM cards shall not be supported;
? Home environment and serving network registration and deregistration;
? Location update;
? Originating or receiving a connection oriented or a connectionless service;
? An unalterable equipment identification; IMEI, see TS 22.016 [12];
? Basic identification of the terminal capabilities related to services such as; the support for software downloading, application execution environment/interface, MExE terminal class, supported bearer services.
? Terminals capable for emergency calls shall support emergency call without a SIM/USIM.
? Support for the execution of algorithms required for encryption, for CS and PS services. Support for non encrypted mode is required;
? Support for the method of handling automatic calling repeat attempt restrictions as specified in TS 22.001 [4];
? At least one capability type shall be standardised for mobile terminals supporting the GERAN and UTRAN radio interfaces.
? Under emergency situations, it may be desirable for the operator to prevent UE users from making access attempts (including emergency call attempts) or responding to pages in specified areas of a network, see TS 22.011 [11];
? Ciphering Indicator for terminals with a suitable display;
  The ciphering indicator feature allows the ME to detect that ciphering is not switched on and to indicate this to the user. The ciphering indicator feature may be disabled by the home network operator setting data in the SIM/USIM. If this feature is not disabled by the SIM, then whenever a connection is in place, which is, or becomes unenciphered, an indication shall be given to the user. Ciphering itself is unaffected by this feature, and the user can choose how to proceed;

? Support for PLMN selection.

Annex A describes a number of features which may optionally be supported by the ME.

**** End of Document****