3GPP TSG CN Plenary Meeting #20 **NP-030202**
4th - 6th June 2003. HÄMEENLINNA, Finland.

Source: **TSG CN WG3**

Title: **CRs on pre-Rel-5 Work Item TEI.**

Agenda item: **7.11**

Document for: **APPROVAL**

Introduction:

This document contains **3** CRs on **pre-Rel-5 Work Item TEI,** including the corresponding mirror CRs (as required).

These CRs have been agreed by TSG CN WG3 and are forwarded to TSG CN Plenary for approval.

WG_tdoc	Title	Spec	CR	Rev	Cat	Rel	C_Ver
N3-030449	Removal of S interface in the MS	27.001	089	1	F	R99	3.b.0
N3-030450	Removal of S interface in the MS	27.001	090	1	A	Rel-4	4.9.0
N3-030451	Removal of S interface in the MS	27.001	091	1	A	Rel-5	5.5.0

3GPP TSG-CN WG3 Meeting #28
San Diego, U.S.A. 19th – 23rd May 2003.

Tdoc ⌘N3-030449

CR-Form-v7

CHANGE REQUEST

⌘ **27.001** **CR** **089** ⌘ **rev** **1** ⌘ 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: UICC apps⌘ [ ] ME [X] Radio Access Network [ ] Core Network [X]

Title:	⌘	Removal of S interface in the MS
Source:	⌘	TSG_CN WG3 *[Siemens AG]*
Work item code:	⌘	TEI
Date:	⌘	23/05/03
Category:	⌘	**F**
Release:	⌘	R99

Use one of the following categories:
F *(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)*
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R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	CR 27.001-021 approved at CN#08 has removed the S interface in the MS and the applicability of the X series. This CR removes text part still relating to those functions.
Summary of change:	⌘	See attached pages
Consequences if not approved:	⌘	Inconsistencies within this Specifications

Clauses affected:	⌘	Clauses 8.1, 8.2.2.3.1, 8.2.2.3.2, Annex B.1.1.1			
Other specs affected:	⌘	**Y**	**N**		
			X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

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First section modified

8 Functions common to all interfaces

8.1 Synchronization of the Traffic Channel

As long as there is no connection between the traffic channel and the interface to the TE this interface must be terminated in the appropriate way.

Prior to exposing the traffic channel of a GSM PLMN connection to transmission of user data, the controlling entities of the connection have to assure of the availability of the traffic channel(s). This is done by the so called synchronization process:

- starting on the indication of "physical connection established" resulting from the PLMN inherent outband signalling procedure. This indication is given on reception of the message CONNECT in case of MO calls, on reception of the message CONNACK in case of MT calls and on reception of the message MODIFY COMPLETE in case of in-call modification;
- ending by indicating the successful execution of this process to the controlling entity, which then takes care of the further use of the inband information (data, status).

~~It should be noted that during~~ During the call control phases (set-up and clear), the procedures at the V.-series ~~and X.-series~~ DTE interfaces ~~can~~ may be mapped completely to the out-of-band signalling procedure. The state of the S-bits and X-bits during the call control phases are irrelevant to the DTE interface procedures. However, the "ready for data" condition (i.e. CTs 106 and 109~~, in the case of V.-series interface, and I-circuit, in the case of X.-series interface~~) is derived from the status bits received by the TAF once synchronization is complete. Since half duplex operation is not supported by a GSM PLMN, status bit SB is not needed to signal the turn around of the connection.

Next section modified

8.2.2.3 Filtering mechanism

8.2.2.3.1 Traffic channel types TCH/F4.8 and TCH/F9.6

A filtering mechanism shall be provided by an integration process on those SB and X bits carrying status information in the V.110 frame or in the multiframe structure. The integration periods applied are:

V-series	Transition	Integration period	Status stream
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CT 106	On-Off	1 s	X
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CT 109	On-Off	5 s	SB
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The integration process shall ensure that the interchange circuits do not change state in response to spurious transitions of the status bits during the integration period.

The integration process shall operate reliably with error characteristics as specified in 3GPP TS 05.05.

8.2.2.3.2 Traffic channel type TCH/F14.4

To change the state of CT 109 ~~(or I circuit)~~ or CT 106, it is required that at least two consecutive SB-bits or X-bits, respectively, carry the same value.

Next section modified

B.1 Bearer Capability Information Element

B.1.1 Introduction

B.1.1.1 General Consideration

In general, the purpose of the bearer capability information element (BC-IE) is to request a particular bearer service to be provided by the network. This indication is carried by certain connection control messages which for the subject matter of the present document may be categorized into those messages:

- related to the call set-up phase; and
- those used during the established connection.

During the call set-up phase the PLMN BC-IE (single or multiple) is included in:

- the SETUP message generated by the requesting entity (either MS or MSC) to establish a mobile-originated or mobile-terminated call, respectively, and in
- the CALL CONFIRMED or CALL PROCEEDING messages, respectively, generated by the responding entity (either MS or MSC) in order to negotiate certain parameter values. If no BC-IE is contained in the SETUP message (a mobile terminated call with the single-numbering scheme) the CALL CONFIRMED message indicates the complete applicable BC-IE. The network may release the call if it does not support the service indicated by the BC-IE. Also, if the service does not match with the service requested from the fixed network terminal the MSC/IWF may release the call.

NOTE: In the latter case also the fixed network terminal may release the call.

During the established connection the PLMN BC-IE is included in the MODIFY, MODIFY COMPLETE, and MODIFY REJECT messages in order to change the service (bearer capability) or to change the maximum number of traffic channels and/or wanted air interface user rate when a non-transparent multislot data service is in use.

If the maximum number of traffic channels and/or wanted air interface user rate is to be changed, the BC-IE included in the MODIFY message shall not indicate a different bearer service than the one used at this stage of the connection - the values of the parameters 'maximum number of traffic channels' and/or 'wanted air interface user rate' may be changed, only.

The subsequent tables and subsections of clause B.1 deal with the representation of the individual contents of the PLMN BC-IE during the call set-up phase. For the use during the established connection refer to 3GPP TS 24.008.

With respect to the individual parameter settings at the MS the following cases may be distinguished (ref. 3GPP TS 27.002 and 3GPP TS 27.003):

- Mobile-originated call set up by a MS ~~consisting of a MT with R interface~~:
  - The setting results from respective MMI actions and/or MT internal settings.

~~- Mobile-originated call set up by a MS consisting of a MT with S interface:~~

~~- The setting of the PLMN BC is derived from the ISDN BC and LLC/HLC elements contained in the ISDN SETUP message received from the terminal. It is complemented by information resulting from respective MMI actions and/or MT internal settings.~~

- Mobile-terminated call set up to a MS ~~consisting of a MT with R interface~~:

  - The BC related part of the compatibility check is carried out according to the knowledge of the MT concerning its implemented functions (i.e. answering the call). The requested field values of the non-negotiable parameters and the selected field values of the negotiable parameters determine the selection of the terminal function to be used for the intended connection.

~~- Mobile-terminated call set up to a MS consisting of a MT with S interface:~~

  ~~- The PLMN BC received from the MSC is mapped by the MT onto an applicable ISDN BC. In some cases a HLC may be generated, if it is not otherwise available (e.g. for group 3 facsimile). The BC related part of the compatibility check is up to the terminal connected to the S interface of the MT, as is the selection of the terminal function (i.e. answering the call) to be used for the intended connection.~~

3GPP TSG-CN WG3 Meeting #28
San Diego, U.S.A. 19th – 23rd May 2003.

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CHANGE REQUEST

⌘ **27.001** **CR** **090** ⌘ **rev** **1** ⌘ Current version: **4.9.0** ⌘

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

Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [ ] Core Network [X]

Title:	⌘	Removal of S interface in the MS
Source:	⌘	TSG_CN WG3 *[Siemens AG]*
Work item code:	⌘	TEI
Date:	⌘	23/05/03
Category:	⌘	**A**
Release:	⌘	Rel-4

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
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Rel-6	*(Release 6)*

Reason for change:	⌘	CR 27.001-021 approved at CN#08 has removed the S interface in the MS and the applicability of the X series. This CR removes text part still relating to those functions.
Summary of change:	⌘	See attached pages
Consequences if not approved:	⌘	Inconsistencies within this Specifications

Clauses affected:	⌘	Clauses 8.1, 8.2.2.3.1, 8.2.2.3.2, Annex B.1.1.1			
Other specs affected:	⌘	**Y**	**N**		⌘
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During the call control phases (set-up and clear), the procedures at the V.-series ~~and X. series~~ DTE interfaces may be mapped completely to the out-of-band signalling procedure. The state of the S-bits and X-bits during the call control phases are in this case irrelevant to the DTE interface procedures. However, the "ready for data" condition (i.e. CTs 106 and 109~~, in the case of V.-series interface, and I-circuit, in the case of X.-series interface~~) is derived from the status bits received by the TAF once synchronization is complete. Since half duplex operation is not supported by a GSM PLMN, status bit SB is not needed to signal the turn around of the connection.

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CHANGE REQUEST

⌘ **27.001** **CR** **091** ⌘ **rev** **1** ⌘ Current version: **5.5.0** ⌘

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Release:	⌘	Rel-5

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