3GPP TSG-CT Meeting #28
Quebec, 1-3 June 2005

CP-050137

Agenda Item: 7.16

Source: CT6

Title: R99 CRs and mirror CRs

Document for: Approval

This document contains the following change requests that are agreed by 3GPP TSG CT WG6 and forwarded to 3GPP TSG CT plenary for approval:

Table of TEI CRs

CT doc	CT6 Doc	Spec	CR	Rev	Rel	Title	Source	Cat	WI	Agenda	Status
CP-050137	C6-050359	31.121	062		R99	Correction of the content for Class 1 short messages in TC 8.2.1	CT6	F	TEI	14.1.1	Agreed
CP-050137	C6-050360	31.121	063		Rel-4	Correction of the content for Class 1 short messages in TC 8.2.1	CT6	A	TEI	14.1.1	Agreed
CP-050137	C6-050361	31.121	064		Rel-5	Correction of the content for Class 1 short messages in TC 8.2.1	CT6	A	TEI	14.1.1	Agreed
CP-050137	C6-050362	31.121	065		R99	Essential correction of TC 8.1.2	CT6	F	TEI	14.1.1	Agreed
CP-050137	C6-050363	31.121	066		Rel-4	Essential correction of TC 8.1.2	CT6	A	TEI	14.1.1	Agreed
CP-050137	C6-050364	31.121	067		Rel-5	Essential correction of TC 8.1.2	CT6	A	TEI	14.1.1	Agreed
CP-050137	C6-050429	31.121	069		R99	Deletion of BDN tests	CT6	F	TEI	14.1.1	Agreed
CP-050137	C6-050430	31.121	070		Rel-4	Deletion of BDN tests	CT6	A	TEI	14.1.1	Agreed
CP-050137	C6-050431	31.121	071		Rel-5	Deletion of BDN tests	CT6	A	TEI	14.1.1	Agreed

3GPP TSG-CT6 #35
Cancun, Mexico
26-29 April 2005

C6-050359

CR-Form-v7.1

CHANGE REQUEST

⌘ **31.121** **CR** **062** ⌘ **rev** **-** ⌘ Current version: **3.12.0** ⌘

*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:	⌘	CR 31.121 R99: Correction of the content for Class 1 short messages in TC 8.2.1
Source:	⌘	CT6
Work item code:	⌘	TEI
Date:	⌘	26/04/2005
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:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	The current specification of TC 8.2.1 proposes to use the same time stamp for all Class 1 SMs send to the ME. Considering 3GPP TS 23.040 sections 3.1 and 6.2, there is the potential risk that a ME may discard all Class 1 short messages as it is allowed inside the ME to discard two short messages received in sequence having the same SC Timestamp. Therefore the TP-Service-Centre-Time-Stamp should be updated to simulate a more realistic scenario in this TC, furthermore the system simulator should indicate that more SMs are waiting to be sent to the ME using the IE TP-More-Messages-to-Send inside the SMS-DELIVER PDU
Summary of change:	⌘	The SMS-DELIVER PDUs for the Class 1 SMs includes for the TP-Service-Centre-Time-Stamp always the current time from the system simulator and the TP-More-Messages-to-Send will indicate that more messages for the ME are waiting in the Service Centre
Consequences if not approved:	⌘	Some correctly implemented MEs will fail the test.

Clauses affected:	⌘	8.2.1.4.1			
Other specs	⌘	Y [ ] N [X]	Other core specifications	⌘	

affected:		**X**	Test specifications
		X	O&M Specifications
Other comments: ⌘			

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.2 Short message handling report

8.2.1 Correct storage of a SM on the USIM

8.2.1.1 Definition and applicability

Once a SM is received by the UE, the Terminal shall store the SM on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SM). For this it is assumed, that at least one relevant SMS field are available on the USIM and they are indicated as empty. If all SMS data field are full and furthermore all memory capacity reserved for SMS inside the ME is filled up to maximum and a SM was rejected, then this shall be indicated in the SMS Status file.

This test applies to all 3G Terminal accessing UTRAN and supporting "receive SMS" functionality.

8.2.1.2 Conformance requirement

The received class 2 SMS shall be stored on the USIM in EF_{SMS}. The status of a received SMS, which has not been read yet, shall be set to "3" (SMS to be read). If the terminal notifies the network that the terminal has been unable to accept a short message because its memory capacity has been exceeded, then the ME shall set the Memory Capacity Exceeded Notification Flag in the EF_{SMSS}.

- TS 23.038, clause 4.
- TS 23.040, subclause 10.1, Operation 6
- TS 24.011, subclause 8.2.2, 8.2.3 and 8.2.5.4, Table 8.4 (part 2)
- TS 31.102, subclauses 4.2.25 and 4.2.28.

8.2.1.3 Test purpose

1) To verify that the 3G Terminal stored correctly the class 2 SMS on the USIM.
2) To verify that the 3G Terminal sets the status of a received, and not yet read SMS to "3" (SMS to be read).
3) To verify that the 3G Terminal sets the memory full flag in EF_{SMSS}. if the terminal notifies the network that the terminal has been unable to accept a short message because its memory capacity has been exceeded

8.2.1.4 Method of test

8.2.1.4.1 Initial conditions

The default UICC is used with the following exception:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available
User controlled PLMN selector available
Fixed dialling numbers available
Barred dialling numbers available
The GSM Access available
The Group Identifier level 1 and level 2 not available
SMS available
SMS Status available
Service n 33 (Packed Switched Domain) shall be set to '1'.
Enabled Services Table available

Coding:	B1	B2	B3	B4	B5
binary	xx1x xx11	xxxx x11x	xxxx 1x00	xxxx x1xx	xxxx xx11

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF_{SMS} (Short Message Service)

At least 10 records.

Record 1 shall be empty.

Logically: Status byte set to empty.

Record 1:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	...	B176
Hex	00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	...	FF

All other Record shall be full.

Logically: Status byte set to SMS read.
The text body of the record shall be filled with any appropriate text.

Records

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	...	B176
Hex	01	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	...	xx

NOTE: "xx" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in 3G TS 23.038 which represents the received SMS.

EF_{SMSS} (SMS Status)

Logically: Last used TP-MR not defined.
Memory capacity available (flag unset b1="1").

Coding:	B1	B2
Hex	FF	FF

The USS transmits on the BCCH, with the following network parameters:

- Attach/detach: disabled.
- LAI (MCC/MNC/LAC): 246/081/0001.
- Access control: unrestricted.

The USS transmits the short messages with the following parameters:

Logically:

Class 2 SM:

TS-Service Centre Address:

Bit 8: 1

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 112233445566

SMS TPDU:

TP-Message-Type-Indicator: SMS-DELIVER (in the direction SC to MS)

TP-More-Messages-to-Send: No more messages are waiting for the MS in this SC

TP-Reply-Path: TP-Reply-Path parameter is not set in this SMS-DELIVER

TP-User-Data-Header-Indicator: The TP-UD field contains only the short message

TP-Status-Report-Indication: A status report shall be returned to the SME

Bits 4-3: 00

TP-Originating-Address:

Bit 8: 1

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 012344556677

TP-Protocol-Identifier: No interworking, but SME-to-SME protocol

TP-Data-Coding-Scheme:

Bits 8-7: General Data Coding

Bit 6: Text is uncompressed

Bit 5: Bits 2-1 have a message class meaning

Bits 4-3: GSM 7 bit default alphabet

Bits 2-1: Class 2: (U)SIM specific message

TP-Service-Centre-Time-Stamp: 02-03-04 09:13:06 GMT + 1

TP-User-Data-Length: 160

TP-User-Data:

"Once a SMS is received by the UE, the Terminal shall store the SMS on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SMS). For this..."

Class 1 SM:

The same content as for the Class 2 SM except:

SMS TPDU:

TP-More-Messages-to-Send: More messages are waiting for the MS in this SC

TP-Data-Coding-Scheme:

Bits 2-1: Class 1: default meaning: ME-specific

TP-Service-Centre-Time-Stamp: Always set to current time of the system simulator

User Equipment:

The UE is in MM-state "idle, updated". If there is ME storage capacity available, the storage for SMS inside the ME shall be able to allow for at least one more mobile terminated (e.g. Class 1) SM.

8.2.1.4.2 Procedure

a) After the UE is set to idle mode, the defined Class 2 SM defined in 8.2.1.4.1 with 160 characters shall be sent to the UE.

b) After the UE has indicated that a SM was received, the SM shall not be read.

c) The USS starts sending Class 1 SMs as defined in 8.2.1.4.1 until the UE sends an RP-ERROR message with cause “Memory capacity exceeded”.

d) The UE is powered off.

8.2.1.5 Acceptance criteria

1) After step b) the record of the EF_{SMS} which was empty, shall contain the following values:

Record 1:

Logically:

Status:

RFU bits 8-6:	000
Status:	Used space, message received by MS from network, message to be read

TS-Service Centre Address:

Bit 8:	1
Type-Of-Number:	International number
Numbering-Plan-Identification:	ISDN/telephony numbering plan
Address value:	112233445566

SMS TPDU:

TP-Message-Type-Indicator:	SMS-DELIVER (in the direction SC to MS)
TP-More-Messages-to-Send:	No more messages are waiting for the MS in this SC
TP-Reply-Path:	TP-Reply-Path parameter is not set in this SMS-DELIVER
TP-User-Data-Header-Indicator:	The TP-UD field contains only the short message
TP-Status-Report-Indication:	A status report shall be returned to the SME
Bits 4-3:	00

TP-Originating-Address:

Bit 8:	1
Type-Of-Number:	International number
Numbering-Plan-Identification:	ISDN/telephony numbering plan
Address value:	012344556677

TP-Protocol-Identifier:	No interworking, but SME-to-SME protocol

TP-Data-Coding-Scheme:

Bits 8-7:	General Data Coding
Bit 6:	Text is uncompressed
Bit 5:	Bits 2-1 have a message class meaning
Bits 4-3:	GSM 7 bit default alphabet
Bits 2-1:	Class 2: (U)SIM specific message

TP-Service-Centre-Time-Stamp: 02-03-04 09:13:06 GMT + 1

TP-User-Data-Length: 160

TP-User-Data:

"Once a SMS is received by the UE, the Terminal shall store the SMS on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SMS). For this..."

Coding:

Hex	03	07	91	11	22	33	44	55	66	24	0C	91	10	32	44	55
	66	77	00	12	20	30	40	90	31	60	40	A0	4F	F7	B8	0C
	0A	83	A6	CD	29	28	3D	07	C9	CB	E3	72	DA	5E	26	83
	C4	79	10	1D	5D	06	55	8B	2C	10	1D	5D	06	51	CB	F2
	76	DA	1D	66	83	E6	E8	30	9B	0D	9A	D3	DF	F2	32	88
	8E	2E	83	A6	CD	29	E8	ED	06	D1	D1	65	50	75	9A	6C
	B2	40	69	33	88	8E	4E	CF	41	E9	39	28	ED	26	A7	C7
	61	7A	99	0C	12	E7	41	74	74	19	34	66	87	E7	73	90
	0C	F4	36	83	E8	E8	32	68	DA	9C	82	50	D5	69	B2	09
	9A	C3	CB	E3	B4	39	3D	06	4D	9B	D3	94	0B	64	7C	CB
	41	74	74	7A	0E	72	B9	5C								

2) After step d) the Memory Capacity Exceeded Notification Flag in the EF_{SMSS} shall be set to exceeded.

EF_{SMSS} (SMS Status)

Logically: Last used TP-MR shall be set to any appropriate value.
Memory capacity exceeded (flag set b1="0").

Coding:	B1	B2
Hex	xx	FE

3GPP TSG-CT6 #35
Cancun, Mexico
26-29 April 2005

C6-050360

CR-Form-v7.1

CHANGE REQUEST

⌘ **31.121** **CR** **063** ⌘ **rev** **-** ⌘ Current version: **4.11.0** ⌘

*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:	⌘	CR 31.121 Rel-4: Correction of the content for Class 1 short messages in TC 8.2.1
Source:	⌘	CT6
Work item code:	⌘	TEI
Date:	⌘	26/04/2005
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)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	The current specification of TC 8.2.1 proposes to use the same time stamp for all Class 1 SMs send to the ME. Considering 3GPP TS 23.040 sections 3.1 and 6.2, there is the potential risk that a ME may discard all Class 1 short messages as it is allowed inside the ME to discard two short messages received in sequence having the same SC Timestamp. Therefore the TP-Service-Centre-Time-Stamp should be updated to simulate a more realistic scenario in this TC, furthermore the system simulator should indicate that more SMs are waiting to be sent to the ME using the IE TP-More-Messages-to-Send inside the SMS-DELIVER PDU
Summary of change:	⌘	The SMS-DELIVER PDUs for the Class 1 SMs includes for the TP-Service-Centre-Time-Stamp always the current time from the system simulator and the TP-More-Messages-to-Send will indicate that more messages for the ME are waiting in the Service Centre
Consequences if not approved:	⌘	Some correctly implemented MEs will fail the test.

Clauses affected:	⌘	8.2.1.4.1			
Other specs	⌘	Y [ ] N [X]	Other core specifications	⌘	

affected:		**X**	Test specifications
		X	O&M Specifications
Other comments: ⌘			

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8.2 Short message handling report

8.2.1 Correct storage of a SM on the USIM

8.2.1.1 Definition and applicability

Once a SM is received by the UE, the Terminal shall store the SM on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SM). For this it is assumed, that at least one relevant SMS field are available on the USIM and they are indicated as empty. If all SMS data field are full and furthermore all memory capacity reserved for SMS inside the ME is filled up to maximum and a SM was rejected, then this shall be indicated in the SMS Status file.

This test applies to all 3G Terminal accessing UTRAN and supporting "receive SMS" functionality.

8.2.1.2 Conformance requirement

The received class 2 SMS shall be stored on the USIM in EF_{SMS}. The status of a received SMS, which has not been read yet, shall be set to "3" (SMS to be read). If the terminal notifies the network that the terminal has been unable to accept a short message because its memory capacity has been exceeded, then the ME shall set the Memory Capacity Exceeded Notification Flag in the EF_{SMSS}.

- TS 23.038, clause 4.
- TS 23.040, subclause 10.1, Operation 6
- TS 24.011, subclause 8.2.2, 8.2.3 and 8.2.5.4, Table 8.4 (part 2)
- TS 31.102, subclauses 4.2.25 and 4.2.28.

8.2.1.3 Test purpose

1) To verify that the 3G Terminal stored correctly the class 2 SMS on the USIM.
2) To verify that the 3G Terminal sets the status of a received, and not yet read SMS to "3" (SMS to be read).
3) To verify that the 3G Terminal sets the memory full flag in EF_{SMSS}. if the terminal notifies the network that the terminal has been unable to accept a short message because its memory capacity has been exceeded

8.2.1.4 Method of test

8.2.1.4.1 Initial conditions

The default UICC is used with the following exception:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available
User controlled PLMN selector available
Fixed dialling numbers available
Barred dialling numbers available
The GSM Access available
The Group Identifier level 1 and level 2 not available
SMS available
SMS Status available
Service n 33 (Packed Switched Domain) shall be set to '1'.
Enabled Services Table available

Coding:	B1	B2	B3	B4	B5
binary	xx1x xx11	xxxx x11x	xxxx 1x00	xxxx x1xx	xxxx xx11

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF_{SMS} (Short Message Service)

At least 10 records.

Record 1 shall be empty.

Logically: Status byte set to empty.

Record 1:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	...	B176
Hex	00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	...	FF

All other Record shall be full.

Logically: Status byte set to SMS read.
The text body of the record shall be filled with any appropriate text.

Records

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	...	B176
Hex	01	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	...	xx

NOTE: "xx" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in 3G TS 23.038 which represents the received SMS.

EF_{SMSS} (SMS Status)

Logically: Last used TP-MR not defined.
Memory capacity available (flag unset b1="1").

Coding:	B1	B2
Hex	FF	FF

The USS transmits on the BCCH, with the following network parameters:

- Attach/detach: disabled.
- LAI (MCC/MNC/LAC): 246/081/0001.
- Access control: unrestricted.

The USS transmits the short messages with the following parameters:

Logically:

Class 2 SM:

TS-Service Centre Address:

Bit 8: 1

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 112233445566

SMS TPDU:

TP-Message-Type-Indicator: SMS-DELIVER (in the direction SC to MS)

TP-More-Messages-to-Send: No more messages are waiting for the MS in this SC

TP-Reply-Path: TP-Reply-Path parameter is not set in this SMS-DELIVER

TP-User-Data-Header-Indicator: The TP-UD field contains only the short message

TP-Status-Report-Indication: A status report shall be returned to the SME

Bits 4-3: 00

TP-Originating-Address:

Bit 8: 1

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 012344556677

TP-Protocol-Identifier: No interworking, but SME-to-SME protocol

TP-Data-Coding-Scheme:

Bits 8-7: General Data Coding

Bit 6: Text is uncompressed

Bit 5: Bits 2-1 have a message class meaning

Bits 4-3: GSM 7 bit default alphabet

Bits 2-1: Class 2: (U)SIM specific message

TP-Service-Centre-Time-Stamp: 02-03-04 09:13:06 GMT + 1

TP-User-Data-Length: 160

TP-User-Data:

"Once a SMS is received by the UE, the Terminal shall store the SMS on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SMS). For this..."

Class 1 SM:

The same content as for the Class 2 SM except:

SMS TPDU:

TP-More-Messages-to-Send: More messages are waiting for the MS in this SC

TP-Data-Coding-Scheme:

Bits 2-1: Class 1: default meaning: ME-specific

TP-Service-Centre-Time-Stamp: Always set to current time of the system simulator

User Equipment:

The UE is in MM-state "idle, updated". If there is ME storage capacity available, the storage for SMS inside the ME shall be able to allow for at least one more mobile terminated (e.g. Class 1) SM.

8.2.1.4.2 Procedure

a) After the UE is set to idle mode, the defined Class 2 SM defined in 8.2.1.4.1 with 160 characters shall be sent to the UE.

b) After the UE has indicated that a SM was received, the SM shall not be read.

c) The USS starts sending Class 1 SMs as defined in 8.2.1.4.1 until the UE sends an RP-ERROR message with cause “Memory capacity exceeded”.

d) The UE is powered off.

8.2.1.5 Acceptance criteria

1) After step b) the record of the EF_{SMS} which was empty, shall contain the following values:

Record 1:

Logically:

Status:

RFU bits 8-6:	000
Status:	Used space, message received by MS from network, message to be read

TS-Service Centre Address:

Bit 8:	1
Type-Of-Number:	International number
Numbering-Plan-Identification:	ISDN/telephony numbering plan
Address value:	112233445566

SMS TPDU:

TP-Message-Type-Indicator:	SMS-DELIVER (in the direction SC to MS)
TP-More-Messages-to-Send:	No more messages are waiting for the MS in this SC
TP-Reply-Path:	TP-Reply-Path parameter is not set in this SMS-DELIVER
TP-User-Data-Header-Indicator:	The TP-UD field contains only the short message
TP-Status-Report-Indication:	A status report shall be returned to the SME
Bits 4-3:	00

TP-Originating-Address:

Bit 8:	1
Type-Of-Number:	International number
Numbering-Plan-Identification:	ISDN/telephony numbering plan
Address value:	012344556677

TP-Protocol-Identifier:	No interworking, but SME-to-SME protocol

TP-Data-Coding-Scheme:

Bits 8-7:	General Data Coding
Bit 6:	Text is uncompressed
Bit 5:	Bits 2-1 have a message class meaning
Bits 4-3:	GSM 7 bit default alphabet
Bits 2-1:	Class 2: (U)SIM specific message

TP-Service-Centre-Time-Stamp: 02-03-04 09:13:06 GMT + 1

TP-User-Data-Length: 160

TP-User-Data:

"Once a SMS is received by the UE, the Terminal shall store the SMS on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SMS). For this..."

Coding:

Hex	03	07	91	11	22	33	44	55	66	24	0C	91	10	32	44	55
	66	77	00	12	20	30	40	90	31	60	40	A0	4F	F7	B8	0C
	0A	83	A6	CD	29	28	3D	07	C9	CB	E3	72	DA	5E	26	83
	C4	79	10	1D	5D	06	55	8B	2C	10	1D	5D	06	51	CB	F2
	76	DA	1D	66	83	E6	E8	30	9B	0D	9A	D3	DF	F2	32	88
	8E	2E	83	A6	CD	29	E8	ED	06	D1	D1	65	50	75	9A	6C
	B2	40	69	33	88	8E	4E	CF	41	E9	39	28	ED	26	A7	C7
	61	7A	99	0C	12	E7	41	74	74	19	34	66	87	E7	73	90
	0C	F4	36	83	E8	E8	32	68	DA	9C	82	50	D5	69	B2	09
	9A	C3	CB	E3	B4	39	3D	06	4D	9B	D3	94	0B	64	7C	CB
	41	74	74	7A	0E	72	B9	5C								

2) After step d) the Memory Capacity Exceeded Notification Flag in the EF_{SMSS} shall be set to exceeded.

EF_{SMSS} (SMS Status)

Logically: Last used TP-MR shall be set to any appropriate value.
Memory capacity exceeded (flag set b1="0").

Coding:	B1	B2
Hex	xx	FE

3GPP TSG-CT6 #35
Cancun, Mexico
26-29 April 2005

C6-050361

CR-Form-v7.1

CHANGE REQUEST

⌘ **31.121** **CR** **064** ⌘ **rev** **-** ⌘ Current version: **5.1.0** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☒

Title:	⌘	CR 31.121 Rel-5: Correction of the content for Class 1 short messages in TC 8.2.1
Source:	⌘	CT6
Work item code:	⌘	TEI
Date:	⌘	26/04/2005
Category:	⌘	**A**
Release:	⌘	Rel-5

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:
Ph2 *(GSM Phase 2)*
R96 *(Release 1996)*
R97 *(Release 1997)*
R98 *(Release 1998)*
R99 *(Release 1999)*
Rel-4 *(Release 4)*
Rel-5 *(Release 5)*
Rel-6 *(Release 6)*
Rel-7 *(Release 7)*

Reason for change:	⌘	The current specification of TC 8.2.1 proposes to use the same time stamp for all Class 1 SMs send to the ME. Considering 3GPP TS 23.040 sections 3.1 and 6.2, there is the potential risk that a ME may discard all Class 1 short messages as it is allowed inside the ME to discard two short messages received in sequence having the same SC Timestamp. Therefore the TP-Service-Centre-Time-Stamp should be updated to simulate a more realistic scenario in this TC, furthermore the system simulator should indicate that more SMs are waiting to be sent to the ME using the IE TP-More-Messages-to-Send inside the SMS-DELIVER PDU
Summary of change:	⌘	The SMS-DELIVER PDUs for the Class 1 SMs includes for the TP-Service-Centre-Time-Stamp always the current time from the system simulator and the TP-More-Messages-to-Send will indicate that more messages for the ME are waiting in the Service Centre. Furthermore small editorial changes have been applied to clause 8.2.1.4.1 and 8.2.1.4.2 to keep this spec in line with the R99 and Rel-4 version and TS 23.040.
Consequences if not approved:	⌘	Some correctly implemented MEs will fail the test.

Clauses affected:	⌘	8.2.1.4.1, 8.2.1.4.2

		Y	N			
Other specs affected:	⌘		X	Other core specifications	⌘	
			X	Test specifications		
			X	O&M Specifications		
Other comments:	⌘					

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.2 Short message handling report

8.2.1 Correct storage of a SM on the USIM

8.2.1.1 Definition and applicability

Once a SMS is received by the UE, the Terminal shall store the SM on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SM). For this it is assumed, that at least one relevant SMS field are available on the USIM and they are indicated as empty. If all SMS data field are full and furthermore all memory capacity reserved for SMS inside the ME is filled up to maximum and a SM was rejected, then this shall be indicated in the SMS Status file.

This test applies to all Terminal accessing UTRAN or GERAN and supporting "receive SMS" functionality.

8.2.1.2 Conformance requirement

The received class 2 SMS shall be stored on the USIM in EF_{SMS}. The status of a received SMS, which has not been read yet, shall be set to "3" (SMS to be read). If the terminal notifies the network that the terminal has been unable to accept a short message because its memory capacity has been exceeded, then the ME shall set the Memory Capacity Exceeded Notification Flag in the EF_{SMSS}.

- TS 23.038 [3], clause 4.
- TS 23.040 [13], subclause 10.1, operation 6;
- TS 24.011, subclause 8.2.2, 8.2.3 and 8.2.5.4, Table 8.4 (part 2)
- TS 31.102 [4], subclauses 4.2.25 and 4.2.28.

8.2.1.3 Test purpose

1) To verify that the Terminal stored correctly the class 2 SMS on the USIM.
2) To verify that the Terminal sets the status of a received, and not yet read SMS to "3" (SMS to be read).
3) To verify that the Terminal sets the memory full flag in EF_{SMSS} if the terminal notifies the network that the terminal has been unable to accept a short message because its memory capacity has been exceeded.

8.2.1.4 Method of test

8.2.1.4.1 Initial conditions

The default UICC is used with the following exception:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available
User controlled PLMN selector available
Fixed dialling numbers available
Barred dialling numbers available
The GSM Access available
The Group Identifier level 1 and level 2 not available
SMS available
SMS Status available
Service n 33 (Packed Switched Domain) shall be set to '1'
Enabled Services Table available

Coding:	B1	B2	B3	B4	B5
binary	xx1x xx11	xxxx X11x	xxxx 1x00	xxxx x1xx	xxxx xx11

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF_{SMS} (Short Message Service)

At least 10 records.
Record 1 shall be empty.
Logically: Status byte set to empty.

Record 1:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	...	B176
Hex	00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	...	FF

All other Record shall be full.
Logically: Status byte set to SMS read.
The text body of the record shall be filled with any appropriate text.

Records:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	...	B176
Hex	01	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	...	xx

NOTE: "xx" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in 3G TS 23.038 [3] which represents the received SMS.

EF_{SMSS} (SMS Status)

Logically: Last used TP-MR not defined.
Memory capacity available (flag unset b1="1").

Coding:	B1	B2
Hex	FF	FF

The USS (in case of a Terminal accessing UTRAN) /SS (in case of a Terminal accessing a GERAN) transmits on the BCCH, with the following network parameters:

- Attach/detach: disabled.
- LAI (MCC/MNC/LAC): 246/081/0001.
- Access control: unrestricted.

The USS/ SS transmits the short messages with the following parameters:

Logically:

Class 2 SM:

TS-Service Centre Address:

Bit 8: 1

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 112233445566

SMS TPDU:

TP-Message-Type-Indicator: SMS-DELIVER (in the direction SC to MS~~UE~~)

TP-More-Messages-to-Send: No more messages are waiting for the MS~~UE~~ in this SC

TP-Reply-Path: TP-Reply-Path parameter is not set in this SMS-DELIVER

TP-User-Data-Header-Indicator: The TP-UD field contains only the short message

TP-Status-Report-Indication: A status report shall be returned to the SME

Bits 4-3: 00

TP-Originating-Address:

Bit 8: 1

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 012344556677

TP-Protocol-Identifier: No interworking, but SME-to-SME protocol

TP-Data-Coding-Scheme:

Bits 8-7: General Data Coding

Bit 6: Text is uncompressed

Bit 5: Bits 2-1 have a message class meaning

Bits 4-3: GSM 7 bit default alphabet

Bits 2-1: Class 2: (U)SIM specific message

TP-Service-Centre-Time-Stamp: 02-03-04 09:13:06 GMT + 1

TP-User-Data-Length: 160

TP-User-Data:

"Once a SMS is received by the UE, the Terminal shall store the SMS on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SMS). For this..."

Class 1 SM~~S~~:

The same content as for the Class 2 SMS except~~-~~:

SMS TPDU:

TP-More-Messages-to-Send: More messages are waiting for the MS in this SC

TP-Data-Coding-Scheme:

Bits 2-1: Class 1: default meaning: ME-specific

TP-Service-Centre-Time-Stamp: Always set to current time of the system simulator

User Equipment:

The UE is in MM-state "idle, updated". If there is ME storage capacity available the storage for SMS inside the ME shall be able to allow for at least one more mobile terminated (e.g. Class 1) SM.

8.2.1.4.2 Procedure

a) After the UE is set to idle mode, the defined class 2 SM~~S~~ defined in 8.2.1.4.1 with 160 characters shall be sent to the UE.

b) After the UE has indicated that a SM~~S~~ was received, the SM~~S~~ shall not be read.

c) The USS starts sending Class 1 SMSs as defined in 8.2.1.4.1 until the UE sends an RP-ERROR message with cause “Memory capacity exceeded”.

d) The UE is powered off.

8.2.1.5 Acceptance criteria

1) After step b) the record of the EF_{SMS} which was empty, shall contain the following values:

Logically: Status byte set to SMS to be read
The text of the received SMS shall be present in the record.

Record 1:

Logically:

Status:

RFU bits 8-6:	000
Status:	Used space, message received by UE from network, message to be read

TS-Service Centre Address:

Bit 8:	1
Type-Of-Number:	International number
Numbering-Plan-Identification:	ISDN/telephony numbering plan
Address value:	112233445566

SMS TPDU:

TP-Message-Type-Indicator:	SMS-DELIVER (in the direction SC to UE)
TP-More-Messages-to-Send:	No more messages are waiting for the UE in this SC
TP-Reply-Path:	TP-Reply-Path parameter is not set in this SMS-DELIVER
TP-User-Data-Header-Indicator:	The TP-UD field contains only the short message
TP-Status-Report-Indication:	A status report shall be returned to the SME
Bits 4-3:	00

TP-Originating-Address:

Bit 8:	1
Type-Of-Number:	International number
Numbering-Plan-Identification:	ISDN/telephony numbering plan
Address value:	012344556677

TP-Protocol-Identifier:	No interworking, but SME-to-SME protocol

TP-Data-Coding-Scheme:

Bits 8-7:	General Data Coding
Bit 6:	Text is uncompressed
Bit 5:	Bits 2-1 have a message class meaning
Bits 4-3:	GSM 7 bit default alphabet

Bits 2-1: Class 2: (U)SIM specific message

TP-Service-Centre-Time-Stamp: 02-03-04 09:13:06 GMT + 1

TP-User-Data-Length: 160

TP-User-Data:

"Once a SMS is received by the UE, the Terminal shall store the SMS on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SMS). For this ..."

Coding:

Hex	03	07	91	11	22	33	44	55	66	24	0C	91	10	32	44	55
	66	77	00	12	20	30	40	90	31	60	40	A0	4F	F7	B8	0C
	0A	83	A6	CD	29	28	3D	07	C9	CB	E3	72	DA	5E	26	83
	C4	79	10	1D	5D	06	55	8B	2C	10	1D	5D	06	51	CB	F2
	76	DA	1D	66	83	E6	E8	30	9B	0D	9A	D3	DF	F2	32	88
	8E	2E	83	A6	CD	29	E8	ED	06	D1	D1	65	50	75	9A	6C
	B2	40	69	33	88	8E	4E	CF	41	E9	39	28	ED	26	A7	C7
	61	7A	99	0C	12	E7	41	74	74	19	34	66	87	E7	73	90
	0C	F4	36	83	E8	E8	32	68	DA	9C	82	50	D5	69	B2	09
	9A	C3	CB	E3	B4	39	3D	06	4D	9B	D3	94	0B	64	7C	CB
	41	74	74	7A	0E	72	B9	5C								

2) After step d) the Memory Capacity Exceeded Notification Flag in the EF_{SMSS} shall be set to exceeded.

EF_{SMSS} (SMS Status)

Logically: Last used TP-MR shall be set to any appropriate value.
Memory capacity exceeded (flag set b1="0").

Coding:	B1	B2
Hex	xx	FE

3GPP TSG-CT6 Meeting #35
Cancun, Mexico, 26-29 April 2005

C6-050362
(revised C6-050225)

CR-Form-v7.1

CHANGE REQUEST

⌘ **31.121** **CR** **065** ⌘ **rev** **-** ⌘ Current version: **3.12.0** ⌘

*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⌘ [X] ME [ ] Radio Access Network [ ] Core Network [ ]

Title:	⌘	CR 31.121 R99: Essential correction of TC 8.1.2
Source:	⌘	CT6
Work item code:	⌘	TEI
Date:	⌘	26/04/2005
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:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	3GPP TS 31.102 doesn't mandate that during phonebook synchronisation only that EF_{UID} record, which contains the value "FF FF", is updated. Update of further EF_{UID} records is therefore allowed. In conclusion this means that the acceptance criteria of TC 8.1.2 is not compliant to TS 31.102.
Summary of change:	⌘	Test purpose and acceptance criteria of TC 8.1.2 corrected.
Consequences if not approved:	⌘	Terminals updating further EF_{UID} records and also updating EF_{UID} correspondingly will fail TC 8.1.2

Clauses affected:	⌘	8.1.2

Other specs affected: ⌘	Y	N		⌘
		X	Other core specifications	
		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.1.2 Update of the Phonebook Synchronisation Counter (PSC)

8.1.2.1 Definition and applicability

The phonebook synchronisation Counter is used to unambiguously identify the status of the phonebook. Every time the phonebook is reset/deleted or the UID and/or the CC has run out of range, the PSC hall be regenerated.

The PSC is a part of the phonebook identifier.

This test applies to all 3G Terminal using either ID-1 UICC or Plug-in UICC.

8.1.2.2 Conformance requirement

Every time either the UID or the CC is incremented by the Terminal, the value of the contend of the appropriate EF shall be tested. If either UID or CC has reached "FF FF", the related EF shall be set to "00 01" and the PSC is incremented.

- TS 31.102, subclause 4.4.2.12.2.

8.1.2.3 Test purpose

1) To verify that the 3G Terminal has recognised that the values of UID and CC has changed.

2) To verify that the 3G Terminal resets the ~~maximal~~ value of EF_{UID} and EF_{CC} ~~back to "00 01"~~.

3) To verify that the 3G Terminal updates EF_{PSC}.

8.1.2.4 Method of test

8.1.2.4.1 Initial conditions

No USS is needed for this test.

The default UICC is used with the following exception:

EF_{UID} (Unique Identifier)

Logically: one record is set to "FF FF".

Coding:	B1	B2
Hex	FF	FF

EF_{PUID} (Previous Unique Identifier)

Logically: is set to "FF FF".

Coding:	B1	B2
Hex	FF	FF

EF_{CC} (Change Counter)

Logically: set to "FF FF"

Coding:	B1	B2
Hex	FF	FF

EF_{PSC} (Phonebook Synchronisation Counter)

Logically: set to "00 00 FF FF".

Coding:	B1	B2	B3	B4
Hex	00	00	FF	FF

At least one phonebook entry shall be empty and available for creating a new entry (e.g. an appropriate ADN record).

The UICC is installed into the Terminal and the UE is powered on and the correct PIN is entered.

8.1.2.4.2 Procedure

a) A new phonebook entry shall be created.

NOTE 1: This may be done by storing a new telephone number in an empty ADN record.

b) The UE shall have given the time to perform the regeneration of the UID records.

NOTE 2: It is assumed that the UE will indicate the time it needs to perform the regeneration by displaying a busy signal to the use.

8.1.2.5 Acceptance criteria

1) After step b) the USIM shall contain the following values:

The EF_{UID} (Unique Identifier) shall have been regenerated and the first value used to update EF_{UID} shall have been "00 01". The value FF FF shall have been replaced by an appropriate value which shall be distinguishable to the maximum value ~~(e.g. by having only 11 ADN records)~~. EF_{PUID} shall contain the UID value, which was used for the last update of EF_{UID}.

~~Logically: set to "xx xx"~~

~~Coding:~~	~~B1~~	~~B2~~
~~Hex~~	~~xx~~	~~xx~~

~~NOTE: "xx xx" may have any value except "FF FF".~~

~~EF_{PUID} (Previous Unique Identifier)~~

~~Logically: set to "00 01"~~

~~Coding:~~	~~B1~~	~~B2~~
~~Hex~~	~~00~~	~~01~~

EF_{CC} (Change Counter)

Logically: set to "00 01"

Coding:	B1	B2
Hex	00	01

EF_{PSC} (Phonebook Synchronisation Counter)

Logically: set to "00 01 00 00"

Coding:	B1	B2	B3	B4
Hex	00	01	00	00

3GPP TSG-CT6 Meeting #35
Cancun, Mexico, 26-29 April 2005

C6-050363
(revised C6-050226)

CR-Form-v7.1

CHANGE REQUEST

⌘ **31.121** **CR** **066** ⌘ **rev** **-** ⌘ Current version: **4.11.0** ⌘

*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⌘ [X] ME [ ] Radio Access Network [ ] Core Network [ ]

Title:	⌘	CR 31.121 Rel-4: Essential correction of TC 8.1.2
Source:	⌘	CT6
Work item code:	⌘	TEI
Date:	⌘	26/04/2005
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)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	3GPP TS 31.102 doesn't mandate that during phonebook synchronisation only that EF_{UID} record, which contains the value "FF FF", is updated. Update of further EF_{UID} records is therefore allowed. In conclusion this means that the acceptance criteria of TC 8.1.2 is not compliant to TS 31.102.
Summary of change:	⌘	Test purpose and acceptance criteria of TC 8.1.2 corrected.
Consequences if not approved:	⌘	Terminals updating further EF_{UID} records and also updating EF_{UID} correspondingly will fail TC 8.1.2

Clauses affected:	⌘	8.1.2

Other specs affected: ⌘	Y	N		⌘
		X	Other core specifications	
		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.1.2 Update of the Phonebook Synchronisation Counter (PSC)

8.1.2.1 Definition and applicability

The phonebook synchronisation Counter is used to unambiguously identify the status of the phonebook. Every time the phonebook is reset/deleted or the UID and/or the CC has run out of range, the PSC hall be regenerated.

The PSC is a part of the phonebook identifier.

This test applies to all 3G Terminal using either ID-1 UICC or Plug-in UICC.

8.1.2.2 Conformance requirement

Every time either the UID or the CC is incremented by the Terminal, the value of the contend of the appropriate EF shall be tested. If either UID or CC has reached "FF FF", the related EF shall be set to "00 01" and the PSC is incremented.

- TS 31.102, subclause 4.4.2.12.2.

8.1.2.3 Test purpose

1) To verify that the 3G Terminal has recognised that the values of UID and CC has changed.
2) To verify that the 3G Terminal reset**s** the ~~maximal~~ value of EF_{UID} and EF_{CC} ~~back to "00 01"~~.
3) To verify that the 3G Terminal updates EF_{PSC}.

8.1.2.4 Method of test

8.1.2.4.1 Initial conditions

No USS is needed for this test.

The default UICC is used with the following exception:

EF_{UID} (Unique Identifier)

Logically: one record is set to "FF FF".

Coding:	B1	B2
Hex	FF	FF

EF_{PUID} (Previous Unique Identifier)

Logically: is set to "FF FF".

Coding:	B1	B2
Hex	FF	FF

EF_{CC} (Change Counter)

Logically: set to "FF FF"

Coding:	B1	B2
Hex	FF	FF

EF_{PSC} (Phonebook Synchronisation Counter)

Logically: set to "00 00 FF FF".

Coding:	B1	B2	B3	B4
Hex	00	00	FF	FF

At least one phonebook entry shall be empty and available for creating a new entry (e.g. an appropriate ADN record).

The UICC is installed into the Terminal and the UE is powered on and the correct PIN is entered.

8.1.2.4.2 Procedure

a) A new phonebook entry shall be created.

NOTE 1: This may be done by storing a new telephone number in an empty ADN record.

b) The UE shall have given the time to perform the regeneration of the UID records.

NOTE 2: It is assumed that the UE will indicate the time it needs to perform the regeneration by displaying a busy signal to the use.

8.1.2.5 Acceptance criteria

1) After step b) the USIM shall contain the following values:

The EF_{UID} (Unique Identifier) shall have been regenerated and the first value used to update EF_{UID} shall have been "00 01". The value FF FF shall have been replaced by an appropriate value which shall be distinguishable to the maximum value ~~(e.g. by having only 11 ADN records)~~. EF_{PUID} shall contain the UID value, which was used for the last update of EF_{UID}.

~~Logically: set to "xx xx"~~

~~Coding:~~	~~B1~~	~~B2~~
~~Hex~~	~~xx~~	~~xx~~

~~NOTE: "xx xx" may have any value except "FF FF".~~

~~EF_{PUID} (Previous Unique Identifier)~~

~~Logically: set to "00 01"~~

~~Coding:~~	~~B1~~	~~B2~~
~~Hex~~	~~00~~	~~01~~

EF_{CC} (Change Counter)

Logically: set to "00 01"

Coding:	B1	B2
Hex	00	01

EF_{PSC} (Phonebook Synchronisation Counter)

Logically: set to "00 01 00 00"

Coding:	B1	B2	B3	B4
Hex	00	01	00	00

3GPP TSG-CT6 Meeting #35
Cancun, Mexico, 26-29 April 2005

C6-050364
(revised C6-050227)

CR-Form-v7.1

CHANGE REQUEST

⌘ **31.121** **CR** **067** ⌘ **rev** **-** ⌘ Current version: **5.1.0** ⌘

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

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

Title:	⌘	CR 31.121 Rel-5: Essential correction of TC 8.1.2
Source:	⌘	CT6
Work item code:	⌘	TEI
Date:	⌘	26/04/2005
Category:	⌘	**A**
Release:	⌘	Rel-5

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:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	3GPP TS 31.102 doesn't mandate that during phonebook synchronisation only that EF_{UID} record, which contains the value "FF FF", is updated. Update of further EF_{UID} records is therefore allowed. In conclusion this means that the acceptance criteria of TC 8.1.2 is not compliant to TS 31.102.
Summary of change:	⌘	Test purpose and acceptance criteria of TC 8.1.2 corrected.
Consequences if not approved:	⌘	Terminals updating further EF_{UID} records and also updating EF_{UID} correspondingly will fail TC 8.1.2

Clauses affected:	⌘	8.1.2

Other specs affected: ⌘	Y	N		⌘
		X	Other core specifications	
		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.1.2 Update of the Phonebook Synchronisation Counter (PSC)

8.1.2.1 Definition and applicability

The phonebook synchronisation Counter is used to unambiguously identify the status of the phonebook. Every time the phonebook is reset/deleted or the UID and/or the CC has run out of range, the PSC hall be regenerated.

The PSC is a part of the phonebook identifier.

This test applies to all 3G Terminal using either ID-1 UICC or Plug-in UICC.

8.1.2.2 Conformance requirement

Every time either the UID or the CC is incremented by the Terminal, the value of the contend of the appropriate EF shall be tested. If either UID or CC has reached "FF FF", the related EF shall be set to "00 01" and the PSC is incremented.

- TS 31.102, subclause 4.4.2.12.2.

8.1.2.3 Test purpose

1) To verify that the 3G Terminal has recognised that the values of UID and CC has changed.

2) To verify that the 3G Terminal resets the ~~maximal~~ value of EF_{UID} and EF_{CC} ~~back to "00 01"~~.

3) To verify that the 3G Terminal updates EF_{PSC}.

8.1.2.4 Method of test

8.1.2.4.1 Initial conditions

No USS is needed for this test.

The default UICC is used with the following exception:

EF_{UID} (Unique Identifier)

Logically: one record is set to "FF FF".

Coding:	B1	B2
Hex	FF	FF

EF_{PUID} (Previous Unique Identifier)

Logically: is set to "FF FF".

Coding:	B1	B2
Hex	FF	FF

EF_{CC} (Change Counter)

Logically: set to "FF FF"

Coding:	B1	B2
Hex	FF	FF

EF_{PSC} (Phonebook Synchronisation Counter)

Logically: set to "00 00 FF FF".

Coding:	B1	B2	B3	B4
Hex	00	00	FF	FF

At least one phonebook entry shall be empty and available for creating a new entry (e.g. an appropriate ADN record).

The UICC is installed into the Terminal and the UE is powered on and the correct PIN is entered.

8.1.2.4.2 Procedure

a) A new phonebook entry shall be created.

NOTE 1: This may be done by storing a new telephone number in an empty ADN record.

b) The UE shall have given the time to perform the regeneration of the UID records.

NOTE 2: It is assumed that the UE will indicate the time it needs to perform the regeneration by displaying a busy signal to the use.

8.1.2.5 Acceptance criteria

1) After step b) the USIM shall contain the following values:

The EF_{UID} (Unique Identifier) shall have been regenerated and the first value used to update EF_{UID} shall have been "00 01". The value FF FF shall have been replaced by an appropriate value which shall be distinguishable to the maximum value ~~(e.g. by having only 11 ADN records)~~. EF_{PUID} shall contain the UID value, which was used for the last update of EF_{UID}.

~~Logically: set to "xx xx"~~

~~Coding:~~	~~B1~~	~~B2~~
~~Hex~~	~~xx~~	~~xx~~

~~NOTE: "xx xx" may have any value except "FF FF".~~

~~EF_{PUID} (Previous Unique Identifier)~~

~~Logically: set to "00 01"~~

~~Coding:~~	~~B1~~	~~B2~~
~~Hex~~	~~00~~	~~01~~

EF_{CC} (Change Counter)

Logically: set to "00 01"

Coding:	B1	B2
Hex	00	01

EF_{PSC} (Phonebook Synchronisation Counter)

Logically: set to "00 01 00 00"

Coding:	B1	B2	B3	B4
Hex	00	01	00	00

3GPP TSG-CT6 Meeting #35
Cancun, Mexico, 26-29 April 2005

C6-050429
(revised C6-050228)

CR-Form-v7.1

CHANGE REQUEST

⌘ **31.121** **CR** **069** ⌘ **rev** **-** ⌘ Current version: **3.12.0** ⌘

*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⌘ [X] ME [ ] Radio Access Network [ ] Core Network [ ]

Title:	⌘	CR 31.121 R99: Deletion of BDN tests
Source:	⌘	CT6
Work item code:	⌘	TEI
Date:	⌘	28/04/2005
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:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	According to TS 31.102, cl. 4.2.44, the BDN feature relies on the Call Control functionality provided by USAT, as defined in TS 31.111. USAT is tested in TS 31.124 and as stated during T3#33 (see T3-050174, agenda item T3-040734) the BDN related functionality tested in TS 31.121 willl be fully covered by the new BDN tests in 31.124. To avoid duplication of tests the superfluous BDN tests in TS 31.121 need to be removed.
Summary of change:	⌘	Deletion of BDN tests and related default values
Consequences if not approved:	⌘	As BDN relies on the USAT feature Call Control, testing BDN in TS 31.121 is out of scope of TS 31.121 and is already tested in the dedicated TS 31.124. This also achieves an alignment with the BDN testing for 2G where BDN testing is performed in TS 11.10-4. Furthermore BDN testing in TS 31.121 has an impact on terminal certification at GCF and therefore cause conflicts as USAT testing is out of scope of testing USIM functionality. This has an impact on further certification depending on the current USIM testing status at GCF.
Clauses affected:	⌘	4.3, 6.3

[Y] [N]

Other specs affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:
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1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

4.3 ~~Definition of BDN UICC~~Void

~~The BDN test cases require a different configuration than the one described in subclause 4.1. For that purpose a default BDN UICC is defined. In general the values of the BDN UICC are identical to the default UICC, with the following exceptions.~~

~~4.3.1 Values of the EF's (BDN UICC)~~

~~4.3.1.1 EF_{UST} (USIM Service Table)~~

~~Logically: Local Phone Book available~~
~~User controlled PLMN selector available~~
~~Fixed dialling numbers available~~
~~Barred dialling numbers available~~
~~The GSM Access available~~
~~The Group Identifier level 1 and level 2 not available~~
~~Service n 33 (Packed Switched Domain) shall be set to '1'.~~
~~Enabled Services Table available~~

~~Coding:~~	~~B1~~	~~B2~~	~~B3~~	~~B4~~	~~B5~~
~~binary~~	~~xx1x xx11~~	~~xxxx xxxx~~	~~xxxx 1x00~~	~~xxxx x1xx~~	~~xxxx xx11~~

~~The coding of EF_{UST} shall conform with the capabilities of the USIM used.~~

~~4.3.1.2 EF_{EST} (Enable Service Table)~~

~~Logically: Fixed Dialling Numbers disabled.~~
~~Barred Dialling Numbers enabled.~~
~~APN Control list (ACL) disabled.~~

~~Coding:~~	~~B1~~
~~binary~~	~~0000 0010~~

~~The coding of EF_{EST} shall conform with the capabilities of the USIM, unused Bits are set to '0'.~~

4.3.1.3 EF_{BDN} (Barred Dialling Numbers)

Logically:

Record 1: Length of alpha identifier: 6 characters;
Alpha identifier: "BDN111";
Length of BCD number: "06";
TON and NPI: Telephony and International;
Dialled number: +1357924680;
CCI: None;
Ext2: None.

Coding for record 1:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	31	31	31	06	91	31	75	29	64	08

B14	B15	B16	B17	B18	B19	B20
FF	FF	FF	FF	FF	FF	FF

Record 2: Length of alpha identifier: 6 characters;
Alpha identifier: "BDN222";
Length of BCD number: "03";
TON and NPI: Telephony and Unknown;
Dialled number: 122;
CCI: None;
Ext2: None.

Coding for record 2:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	32	32	32	04	81	21	F2	FF	FF	FF

B14	B15	B16	B17	B18	B19	B20
FF	FF	FF	FF	FF	FF	FF

Record 3: Length of alpha identifier: 6 characters;
Alpha identifier: "BDN333";
Length of BCD number: "03";
TON and NPI: Telephony and Unknown;
Dialled number: 112;
CCI: None;
Ext2: None.

Coding for record 3:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	33	33	33	03	81	11	F2	FF	FF	FF

B14	B15	B16	B17	B18	B19	B20
FF	FF	FF	FF	FF	FF	FF

4.3.1.4 EF_{ECC} (Emergency Call Codes)

Logically: Emergency call code: "122";
Emergency call code alpha identifier: "TEST";
Emergency call Service Category: RFU.

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex	21	F2	FF	54	45	53	54	00

4.3.1.5 Other Values of the USIM

All other values of EFs provided by the USIM shall be set to the default values defined in the annex E of TS 31.102. Some EFs (like the GSM Access files) may necessary for some tests and apply only to those test cases.

6.3 Barred Dialling numbers (BDN) handlingVoid

6.3.1 Terminal and USIM with BDN enabled

6.3.1.1 Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the UE. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of BDN the UE runs the BDN capability request procedure during UICC-Terminal initialisation.

This test applies to Terminals accessing UTRAN. Besides of that, this test is applicable only to those Terminals supporting BDN and CS.

6.3.1.2 Conformance requirement

1) Recognising the state of the USIM (BDN enabled) the UE shall perform the UICC initialisation procedure as specified.

2) The UE shall prevent call set-up to a any number stored in EF_{BDN}.

3) The UE allows call set-up of an emergency call, even if this number is stored in the USIM.

Reference:

- TS 22.101[11], clause 8 and A.19;

- TS 31.102[4], subclauses 4.2.44, 4.4.2.3, 5.1.1 and 5.3.2.

6.3.1.3 Test purpose

1) To verify that the Terminal rejects call set-up to any number that has an entry in EF_{BDN}.

2) To verify that the Terminal allows call set-up to any number not stored in EF_{BDN}.

3) To verify that the Terminal allows emergency call set-up even if the number is stored in EF_{BDN}.

6.3.1.4 Method of test

6.3.1.4.1 Initial conditions

The USS transmits on the BCCH, with the following network parameters:

Attach/detach: disabled.

LAI (MCC/MNC/LAC): 246/081/0001.

Access control: unrestricted.

The default BDN UICC with BDN service enabled is installed into the Terminal.

6.3.1.4.2 Procedure

a) The UE is powered on and PIN is entered.

b) Using the MMI a call set up to the barred dialling number 1 (record 1) is attempted.

c) Using the ADN entry a call set up to the abbreviated dialling number 1 (record 1) end is attempted.

d) Using the MMI a call set up to the number "123456" is attempted.

e) Using the MMI an emergency call set up is attempted using the emergency call code stored in the Terminal

f) Using the MMI an emergency call set up is attempted using the emergency call code stored in the USIM (i.e. "122").

NOTE: For step e) one of the emergency call codes, which are available when a SIM/USIM is present, according to 22.101[11], subclause 8 is used (i.e. “112”, or “911”).

6.3.1.5 Acceptance criteria

1) After step a) the UE is registered and in idle state.

2) After step b) the UE shall prevent call set up.

3) After steps c) and d) the UE shall allow call set up and send the requested number across the air interface.

4) After steps e) and f) the UE shall allow emergency call by indicating the call setup as "Emergency Call".

6.3.2 Terminal and USIM with BDN disabled

6.3.2.1 Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the UE. No numbers which are stored in the EF_{BDN} may be dialled by the UE. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of BDN the UE runs the BDN capability request procedure during UICC-Terminal initialisation. Deactivation of the service by the subscriber is possible under the control of PIN2 and switches the USIM into a "normal", non restrictive USIM. When the BDN is disabled no special controls are specified. The BDN may be read as if they were normal ADN. However a modification or deletion of the a BDN is under PIN2 control.

This test applies to Terminals accessing UTRAN. Besides of that, this test is applicable only to those Terminals supporting BDN and CS.

6.3.2.2 Conformance requirement

1) Recognising the state of the USIM (BDN disabled) the UE correctly performs the UICC initialisation procedure.

2) The UE allows call set-up to a directory number as stored in EF_{BDN}.

3) Any change to the EF_{BDN} does requests PIN2.

Reference:

- TS 22.101[11], clauses 8 and A.19;

- TS 31.102[4], subclauses 4.2.44, 5.1.1 and 5.3.2.

6.3.2.3 Test purpose

1) To verify that the Terminal as a result of the state of the USIM correctly performs the UICC-Terminal initialisation procedure.

2) To verify that the Terminal allows call set up to a BDN number.

3) The UE shall allow updating of EF_{BDN} by the use of PIN2.

6.3.2.4 Method of test

6.3.2.4.1 Initial conditions

The USS transmits on the BCCH, with the following network parameters:

Attach/detach: disabled.

LAI (MCC/MNC/LAC): 246/081/0001.

Access control: unrestricted.

The default FDN UICC is used with the following exception:

EF_{EST} (Enable Service Table)

Logically: Fixed Dialling Numbers disabled.
Barred Dialling Numbers disabled.
APN Control list (ACL) disabled.

Coding:	B1
binary	0000 0000

The UICC is installed into the Terminal and the UE is powered on.

6.3.2.4.2 Procedure

a) Using the MMI a call set up to the barred dialling number 1 is attempted.

b) Using the MMI the directory number "+876543210" is stored in EF_{BDN} as barred dialling number 1 (record 1). The alpha identifier is not changed. On request of the UE PIN2 is entered.

6.3.2.5 Acceptance criteria

1) After step a) the UE shall allow call set up and send the requested number across the air interface.

2) After step b) record 1 in EF_{BDN}, shall contain the following values:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	31	31	31	06	91	78	56	34	12	F0

B14	B15	B16	B17	B18	B19	B20
FF	FF	FF	FF	FF	FF	FF

3GPP TSG-CT6 Meeting #35
Cancun, Mexico, 26-29 April 2005

C6-050430
(revised C6-050229)

CR-Form-v7.1

CHANGE REQUEST

⌘ **31.121** **CR** **070** ⌘ **rev** **-** ⌘ Current version: **4.11.0** ⌘

*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⌘ [X] ME [ ] Radio Access Network [ ] Core Network [ ]

Title:	⌘	CR 31.121 Rel-4: Deletion of BDN tests
Source:	⌘	CT6
Work item code:	⌘	TEI
Date:	⌘	28/04/2005
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)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	According to TS 31.102, cl. 4.2.44, the BDN feature relies on the Call Control functionality provided by USAT, as defined in TS 31.111. USAT is tested in TS 31.124 and as stated during T3#33 (see T3-050174, agenda item T3-040734) the BDN related functionality tested in TS 31.121 willl be fully covered by the new BDN tests in 31.124. To avoid duplication of tests the superfluous BDN tests in TS 31.121 need to be removed.
Summary of change:	⌘	Deletion of BDN tests and related default values
Consequences if not approved:	⌘	As BDN relies on the USAT feature Call Control, testing BDN in TS 31.121 is out of scope of TS 31.121 and is already tested in the dedicated TS 31.124. This also achieves an alignment with the BDN testing for 2G where BDN testing is performed in TS 11.10-4. Furthermore BDN testing in TS 31.121 has an impact on terminal certification at GCF and therefore cause conflicts as USAT testing is out of scope of testing USIM functionality. This has an impact on further certification depending on the current USIM testing status at GCF.
Clauses affected:	⌘	4.3, 6.3

[Y] [N]

Other specs affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

4.3 ~~Definition of BDN UICC~~Void

~~The BDN test cases require a different configuration than the one described in subclause 4.1. For that purpose a default BDN UICC is defined. In general the values of the BDN UICC are identical to the default UICC, with the following exceptions.~~

~~4.3.1 Values of the EF's (BDN UICC)~~

~~4.3.1.1 EF_{UST} (USIM Service Table)~~

~~Logically: Local Phone Book available~~
~~User controlled PLMN selector available~~
~~Fixed dialling numbers available~~
~~Barred dialling numbers available~~
~~The GSM Access available~~
~~The Group Identifier level 1 and level 2 not available.~~
~~Service n 33 (Packed Switched Domain) shall be set to '1'~~
~~Enabled Services Table available~~

~~Coding:~~	~~B1~~	~~B2~~	~~B3~~	~~B4~~	~~B5~~
~~binary~~	~~xx1x xx11~~	~~xxxx xxxx~~	~~xxxx 1x00~~	~~xxxx x1xx~~	~~xxxx xx11~~

~~The coding of EF_{UST} shall conform with the capabilities of the USIM used.~~

~~4.3.1.2 EF_{EST} (Enable Service Table)~~

~~Logically: Fixed Dialling Numbers disabled.~~
~~Barred Dialling Numbers enabled.~~
~~APN Control list (ACL) disabled.~~

~~Coding:~~	~~B1~~
~~binary~~	~~0000 0010~~

~~The coding of EF_{EST} shall conform with the capabilities of the USIM, unused Bits are set to '0'..~~

4.3.1.3 EF_{BDN} (Barred Dialling Numbers)

Logically:

Record 1: Length of alpha identifier: 6 characters;
Alpha identifier: "BDN111";
Length of BCD number: "06";
TON and NPI: Telephony and International;
Dialled number: +1357924680;
CCI: None;
Ext2: None.

Coding for record 1:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	31	31	31	06	91	31	75	29	64	08

	B14	B15	B16	B17	B18	B19	B20
	FF	FF	FF	FF	FF	FF	FF

Record 2: Length of alpha identifier: 6 characters;
Alpha identifier: "BDN222";
Length of BCD number: "03";
TON and NPI: Telephony and Unknown;
Dialled number: 122;
CCI: None;
Ext2: None.

Coding for record 2:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	32	32	32	04	81	21	F2	FF	FF	FF

	B14	B15	B16	B17	B18	B19	B20
	FF	FF	FF	FF	FF	FF	FF

Record 3: Length of alpha identifier: 6 characters;
Alpha identifier: "BDN333";
Length of BCD number: "03";
TON and NPI: Telephony and Unknown;
Dialled number: 112;
CCI: None;
Ext2: None.

Coding for record 3:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	33	33	33	03	81	11	F2	FF	FF	FF

	B14	B15	B16	B17	B18	B19	B20
	FF	FF	FF	FF	FF	FF	FF

4.3.1.4 EF_{ECC} (Emergency Call Codes)

Logically: Emergency call code: "122";
Emergency call code alpha identifier: "TEST";
Emergency call Service Category: Mountain Rescue.

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex	21	F2	FF	54	45	53	54	10

4.3.1.5 Other Values of the USIM

All other values of EFs provided by the USIM shall be set to the default values defined in the annex E of TS 31.102. Some EFs (like the GSM Access files) may necessary for some tests and apply only to those test cases.

6.3 Barred Dialling numbers (BDN) handlingVoid

6.3.1 Terminal and USIM with BDN enabled

6.3.1.1 Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the UE. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of BDN the UE runs the BDN capability request procedure during UICC-Terminal initialisation. At the time an emergency call is setup using the emergency call code read from the EF_{ECC}, the UE shall use the category of the emergency service indicated.

This test applies to Terminals accessing UTRAN. Besides of that, this test is applicable only to those Terminals supporting BDN and CS.

6.3.1.2 Conformance requirement

1) Recognising the state of the USIM (BDN enabled) the UE shall perform the UICC initialisation procedure as specified.

2) The UE shall prevent call set-up to any number stored in EF_{BDN}.

3) The UE allows call set-up of an emergency call, even if this number is stored in the USIM.

Reference:

- TS 22.101[11], clause 9 and A.20;

- TS 31.102[4], subclauses 4.2.44, 4.4.2.3, 5.1.1 and 5.3.2;

- TS 24.008[16], subclause 10.5.4.33.

6.3.1.3 Test purpose

1) To verify that the Terminal rejects call set-up to any number that has an entry in EF_{BDN}.

2) To verify that the Terminal allows call set-up to any number not stored in EF_{BDN}.

3) To verify that the Terminal allows emergency call set-up even if the number is stored in EF_{BDN}.

4) To verify that the Terminal reads correctly the emergency service category stored in EF_{ECC}.

6.3.1.4 Method of test

6.3.1.4.1 Initial conditions

The USS transmits on the BCCH, with the following network parameters

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

The default BDN UICC with BDN service enabled is installed into the Terminal.

6.3.1.4.2 Procedure

a) The UE is powered on and PIN is entered.

b) Using the MMI a call set up to the barred dialling number 1 (record 1) is attempted.

c) Using the ADN entry a call set up to the abbreviated dialling number 1 (record 1) end is attempted.

d) Using the MMI a call set up to the number "123456" is attempted.

e) Using the MMI an emergency call set up is attempted using the emergency call code stored in the Terminal

f) Using the MMI an emergency call set up is attempted using the emergency call code stored in the USIM (i.e. "122").

NOTE: For step e) one of the emergency call codes, which are available when a SIM/USIM is present, according to TS 22.101[11], subclause 9 is used (i.e. "112", or "911").

6.3.1.5 Acceptance criteria

1) After step a) the UE is registered and in idle state.

2) After step b) the UE shall prevent call set up.

3) After steps c) and d) the UE shall allow call set up and send the requested number across the air interface.

4) After steps e) and f) the UE shall allow an emergency call by indicating the call setup as "Emergency Call".

5) After step f) the UE shall send the emergency service category correctly as "Mountain Rescue".

6.3.2 Terminal and USIM with BDN disabled

6.3.2.1 Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the UE. No numbers which are stored in the EF_{BDN} may be dialled by the UE. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of BDN the UE runs the BDN capability request procedure during UICC-Terminal initialisation. Deactivation of the service by the subscriber is possible under the control of PIN2 and switches the USIM into a "normal", non restrictive USIM. When the BDN is disabled no special controls are specified. The BDN may be read as if they were normal ADN. However a modification or deletion of the a BDN is under PIN2 control.

This test applies to Terminals accessing UTRAN. Besides of that, this test is applicable only to those Terminals supporting BDN and CS.

6.3.2.2 Conformance requirement

1) Recognising the state of the USIM (BDN disabled) the UE correctly performs the UICC initialisation procedure.

2) The UE allows call set up to a directory number as stored in EF_{BDN}.

3) Any change to the EF_{BDN} does requests PIN2.

Reference:

- TS 22.101[11], clauses 9 and A.20;

- TS 31.102[4], subclauses 4.2.44, 5.1.1 and 5.3.2.

6.3.2.3 Test purpose

1) To verify that the Terminal as a result of the state of the USIM correctly performs the UICC-Terminal initialisation procedure.

2) To verify that the Terminal allows call set-up to a BDN number.

3) The UE shall allow updating of EF_{BDN} by the use of PIN2.

6.3.2.4 Method of test

6.3.2.4.1 Initial conditions

The USS transmits on the BCCH, with the following network parameters

- Attach/detach: disabled.
- LAI (MCC/MNC/LAC): 246/081/0001.
- Access control: unrestricted.

The default FDN UICC is used with the following exception:

EF_{EST} (Enable Service Table)

Logically: Fixed Dialling Numbers disabled.
Barred Dialling Numbers disabled.
APN Control list (ACL) disabled.

Coding:	B1
binary	0000 0000

The UICC is installed into the Terminal and the UE is powered on.

6.3.2.4.2 Procedure

a) Using the MMI a call set-up to the barred dialling number 1 is attempted.

b) Using the MMI the directory number "+876543210" is stored in EF_{BDN} as barred dialling number 1 (record 1). The alpha identifier is not changed. On request of the UE PIN2 is entered.

6.3.2.5 Acceptance criteria

1) After step a) the UE shall allow call set-up and send the requested number across the air interface.

2) After step b) record 1 in EF_{BDN}, shall contain the following values:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	31	31	31	06	91	78	56	34	12	F0

	B14	B15	B16	B17	B18	B19	B20
	FF	FF	FF	FF	FF	FF	FF

3GPP TSG-CT6 Meeting #35
Cancun, Mexico, 26-29 April 2005

C6-050431
(revised C6-050230)

CR-Form-v7.1

CHANGE REQUEST

⌘ **31.121** **CR** **071** ⌘ **rev** **-** ⌘ Current version: **5.1.0** ⌘

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

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

Title:	⌘	CR 31.121 Rel-5: Deletion of BDN tests
Source:	⌘	CT6
Work item code:	⌘	TEI
Date:	⌘	28/04/2005
Category:	⌘	**A**
Release:	⌘	Rel-5

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:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	According to TS 31.102, cl. 4.2.44, the BDN feature relies on the Call Control functionality provided by USAT, as defined in TS 31.111. USAT is tested in TS 31.124 and as stated during T3#33 (see T3-050174, agenda item T3-040734) the BDN related functionality tested in TS 31.121 willl be fully covered by the new BDN tests in 31.124. To avoid duplication of tests the superfluous BDN tests in TS 31.121 need to be removed.
Summary of change:	⌘	Deletion of BDN tests and related default values
Consequences if not approved:	⌘	As BDN relies on the USAT feature Call Control, testing BDN in TS 31.121 is out of scope of TS 31.121 and is already tested in the dedicated TS 31.124. This also achieves an alignment with the BDN testing for 2G where BDN testing is performed in TS 11.10-4. Furthermore BDN testing in TS 31.121 has an impact on terminal certification at GCF and therefore cause conflicts as USAT testing is out of scope of testing USIM functionality. This has an impact on further certification depending on the current USIM testing status at GCF.
Clauses affected:	⌘	4.3, 6.3

[Y] [N]

Other specs affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

4.3 ~~Definition of BDN UICC~~Void

~~The BDN test cases require a different configuration than the one described in subclause 4.1. For that purpose a default BDN UICC is defined. In general the values of the BDN UICC are identical to the default UICC, with the following exceptions.~~

~~4.3.1 Values of the EF's (BDN UICC)~~

~~4.3.1.1 EF_{UST} (USIM Service Table)~~

~~Logically: Local Phone Book available~~
~~User controlled PLMN selector available~~
~~Fixed dialling numbers available~~
~~Barred dialling numbers available~~
~~The GSM Access available~~
~~The Group Identifier level 1 and level 2 not available.~~
~~Service n 33 (Packed Switched Domain) shall be set to '1'~~
~~Enabled Services Table available~~

~~Coding:~~	~~B1~~	~~B2~~	~~B3~~	~~B4~~	~~B5~~
~~binary~~	~~xx1x xx11~~	~~xxxx xxxx~~	~~xxxx 1x00~~	~~xxxx x1xx~~	~~xxxx xx11~~

~~The coding of EF_{UST} shall conform with the capabilities of the USIM used.~~

~~4.3.1.2 EF_{EST} (Enable Service Table)~~

~~Logically: Fixed Dialling Numbers disabled.~~
~~Barred Dialling Numbers enabled.~~
~~APN Control list (ACL) disabled.~~

~~Coding:~~	~~B1~~
~~binary~~	~~0000 0010~~

~~The coding of EF_{EST} shall conform with the capabilities of the USIM, unused Bits are set to '0'.~~

4.3.1.3 EF_{BDN} (Barred Dialling Numbers)

Logically:

Record 1: Length of alpha identifier: 6 characters;
Alpha identifier: "BDN111";
Length of BCD number: "06";
TON and NPI: Telephony and International;
Dialled number: +1357924680;
CCI: None;
Ext2: None.

Coding for record 1:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	31	31	31	06	91	31	75	29	64	08

B14	B15	B16	B17	B18	B19	B20
FF	FF	FF	FF	FF	FF	FF

Record 2: Length of alpha identifier: 6 characters;
Alpha identifier: "BDN222";
Length of BCD number: "03";
TON and NPI: Telephony and Unknown;
Dialled number: 122;
CCI: None;
Ext2: None.

Coding for record 2:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	32	32	32	04	81	21	F2	FF	FF	FF

B14	B15	B16	B17	B18	B19	B20
FF	FF	FF	FF	FF	FF	FF

Record 3: Length of alpha identifier: 6 characters;
Alpha identifier: "BDN333";
Length of BCD number: "03";
TON and NPI: Telephony and Unknown;
Dialled number: 112;
CCI: None;
Ext2: None.

Coding for record 3:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	33	33	33	03	81	11	F2	FF	FF	FF

B14	B15	B16	B17	B18	B19	B20
FF	FF	FF	FF	FF	FF	FF

4.3.1.4 EF_{ECC} (Emergency Call Codes)

Logically: Emergency call code: "122";
Emergency call code alpha identifier: "TEST";
Emergency call Service Category: Mountain Rescue.

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex	21	F2	FF	54	45	53	54	10

4.3.1.5 Other Values of the USIM

All other values of EFs provided by the USIM shall be set to the default values defined in the annex E of TS 31.102 [4]. Some EFs (like the GSM Access files) may necessary for some tests and apply only to those test cases.

6.3 Barred Dialling numbers (BDN) handlingVoid

6.3.1 Terminal and USIM with BDN enabled

6.3.1.1 Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the UE. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of BDN the UE runs the BDN capability request procedure during UICC-Terminal initialisation. At the time an emergency call is setup using the emergency call code read from the EF_{ECC}, the UE shall use the category of the emergency service indicated.

This test applies to Terminals accessing UTRAN and supporting CS and to Terminals accessing a GERAN. Besides of that, this test is applicable only to those Terminals supporting BDN.

6.3.1.2 Conformance requirement

1) Recognising the state of the USIM (BDN enabled) the UE shall perform the UICC initialisation procedure as specified.

2) The UE shall prevent call set-up to any number stored in EF_{BDN}.

3) The UE allows call set-up of an emergency call, even if this number is stored in the USIM.

Reference:

- TS 22.101 [11], clause 10 and A.20;
- TS 31.102 [4], subclauses 4.2.44, 4.4.2.3, 5.1.1 and 5.3.2;
- TS 24.008 [16], subclause 10.5.4.33.

6.3.1.3 Test purpose

1) To verify that the Terminal rejects call set-up to any number that has an entry in EF_{BDN}.

2) To verify that the Terminal allows call set-up to any number not stored in EF_{BDN}.

3) To verify that the Terminal allows emergency call set-up even if the number is stored in EF_{BDN}.

4) To verify that the Terminal reads correctly the emergency service category stored in EF_{ECC}.

6.3.1.4 Method of test

6.3.1.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN)/ SS (in case of a Terminal accessing GERAN) transmits on the BCCH, with the following network parameters

- Attach/detach: disabled.
- LAI (MCC/MNC/LAC): 246/081/0001.
- Access control: unrestricted.

The default BDN UICC with BDN service enabled is installed into the Terminal.

6.3.1.4.2 Procedure

a) The UE is powered on and PIN is entered.

b) Using the MMI a call set up to the barred dialling number 1 (record 1) is attempted.

c) Using the ADN entry a call set up to the abbreviated dialling number 1 (record 1) end is attempted.

d) Using the MMI a call set up to the number "123456" is attempted.

e) Using the MMI an emergency call set up is attempted using the emergency call code stored in the Terminal

f) Using the MMI an emergency call set up is attempted using the emergency call code stored in the USIM (i.e. "122").

NOTE: For step e) one of the emergency call codes, which are available when a USIM is present, according to TS 22.101 [11], subclause 10 is used (i.e. "112", "911" or an emergency number downloaded from the serving network (if any).).

6.3.1.5 Acceptance criteria

1) After step a) the UE is registered and in idle state.

2) After step b) the UE shall prevent call set up.

3) After steps c) and d) the UE shall allow call set up and send the requested number across the air interface.

4) After steps e) and f) the UE shall allow an emergency call by indicating the call setup as "Emergency Call".

5) After step f) the UE shall send the emergency service category correctly as "Mountain Rescue".

6.3.2 Terminal and USIM with BDN disabled

6.3.2.1 Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the UE. No numbers which are stored in the EF_{BDN} may be dialled by the UE. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of BDN the UE runs the BDN capability request procedure during UICC-Terminal initialisation. Deactivation of the service by the subscriber is possible under the control of PIN2 and switches the USIM into a "normal", non restrictive USIM. When the BDN is disabled no special controls are specified. The BDN may be read as if they were normal ADN. However a modification or deletion of the a BDN is under PIN2 control.

This test applies to Terminals accessing UTRAN and supporting CS and to Terminals accessing a GERAN. Besides of that, this test is applicable only to those Terminals supporting BDN.

6.3.2.2 Conformance requirement

1) Recognising the state of the USIM (BDN disabled) the UE correctly performs the UICC initialisation procedure.

2) The UE allows call set up to a directory number as stored in EF_{BDN}.

3) Any change to the EF_{BDN} does requests PIN2.

Reference:

- TS 22.101 [11] , clauses 10 and A.20;

- TS 31.102 [4], subclauses 4.2.44, 5.1.1 and 5.3.2.

6.3.2.3 Test purpose

1) To verify that the Terminal as a result of the state of the USIM correctly performs the UICC Terminal initialisation procedure.

2) To verify that the Terminal allows call set-up to a BDN number.

3) The UE shall allow updating of EF_{BDN} by the use of PIN2.

6.3.2.4 Method of test

6.3.2.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN)/ SS (in case of a Terminal accessing GERAN) transmits on the BCCH, with the following network parameters

- Attach/detach: disabled.
- LAI (MCC/MNC/LAC): 246/081/0001.
- Access control: unrestricted.

The default FDN UICC is used with the following exception:

EF_{EST} (Enable Service Table)

Logically: Fixed Dialling Numbers disabled.
Barred Dialling Numbers disabled.
APN Control list (ACL) disabled.

Coding:	B1
binary	0000 0000

The UICC is installed into the Terminal and the UE is powered on.

6.3.2.4.2 Procedure

a) Using the MMI a call set up to the barred dialling number 1 is attempted.

b) Using the MMI the directory number "+876543210" is stored in EF_{BDN} as barred dialling number 1 (record 1). The alpha identifier is not changed. On request of the UE PIN2 is entered.

6.3.2.5 Acceptance criteria

1) After step a) the UE shall allow call set-up and send the requested number across the air interface.

2) After step b) record 1 in EF_{BDN}, shall contain the following values:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	31	31	31	06	91	78	56	34	12	F0

	B14	B15	B16	B17	B18	B19	B20
	FF	FF	FF	FF	FF	FF	FF