3GPP TSG-T plenary meeting #20 Hämeenlinna, Finland, 4-6 May 2003

Source: T3

Title: CRs to TS 31.102: Characteristics of the USIM Application

Document for: Approval

This document contains the following change requests:

T3 Doc	Spec	CR	Rev	Phase	Subject	Cat	V. old	V. new
T3-030396	31.102	142	-	Rel-4	Correction of the MMS example	F	4.8.0	4.9.0
T3-030397	31.102	143	-	Rel-5	Correction of the MMS example	A	5.4.0	5.5.0
T3-030399	31.102	144	-	Rel-6	Correction of the MMS example	A	6.1.0	6.2.0
T3-030413	31.102	145	-	R99	Corrections and clarifications	F	3.12.0	3.13.0
T3-030414	31.102	146	-	Rel-4	Corrections and clarifications	A	4.8.0	4.9.0
T3-030415	31.102	147	-	Rel-5	Corrections and clarifications	A	5.4.0	5.5.0
T3-030416	31.102	148	-	Rel-6	Corrections and clarifications	A	6.1.0	6.2.0
T3-030454	31.102	149	-	R99	Clarification on the support of extra guardtime	F	3.12.0	3.13.0
T3-030455	31.102	150	-	Rel-4	Clarification on the support of extra guardtime	F	4.8.0	4.9.0
T3-030456	31.102	151	-	Rel-5	Clarification on the support of extra guardtime	A	5.4.0	5.5.0
T3-030461	31.102	152	-	Rel-6	Clarification on SIM support by terminals	A	6.1.0	6.2.0
T3-030457	31.102	153	-	Rel-5	Clarification on SIM support by R5 terminal	F	5.4.0	5.5.0

CHANGE REQUEST												
ж	31.102 CR 142 ⁴ - [#]	Current ver	sion: 4.8.0 **									
For <u>HELP</u> or	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 X Radio Access Network Core Network												
Title:	# CR 31.102 Rel-4: Correction of the MMS example											
Source:	Ж ТЗ											
Work item code:	発 <mark>すてEI</mark>	Date: ೫	21-05-2003									
Category:	 F Use <u>one</u> 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 <u>TR 21.900</u>. 	Release: % Use <u>one</u> of 2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	Rel-4 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)									

Reason for change: #	Correction of the example of MMS coding in order to avoid misinterpretation
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Summary of change: #	 Correction of the encoding of the MMS User Preference Profile Name in the coding example for MMS User Preferences.
	 Size correction of the of the MMS Relay/Server information in the Coding Example for MMS Issuer/User Connectivity Parameters.
Consequences if % not approved:	The current example for the encoding of the MMS User Preference Profile Name Tag in the coding example for MMS User Preferences, stored on the (U)SIM is open to misinterpretation.
Clauses affected: #	Annex J.1, J.2
Other specs % affected:	YNXOther core specifications%XTest specificationsXO&M Specifications
Other commonter	
Uner comments: ж	

How to create CRs using this form: Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. 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.
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- 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.

Annex J (informative): Example of MMS coding

J.1 Coding example for MMS User Preferences

0x80 MMS Implementation Tag

0x01 (Length = "1")

0x01 (MMS implementation information = "WAP")

0x81 MMS User Preference Profile Name Tag

 $0x_{1} + C_{0} = (Length = "28_{14}")$

43 68 72 69 73 74 6D 61 73 20 43 61 72 64

(profile name = "Christmas Card"; 14 characters, <u>2814</u> Bytes)

0x82 MMS User Preference Information Tag

0x19 (Length = "25")

0x14 0x80 (visibility = "hide"; 2 Bytes)
0x06 0x80 (delivery report = "yes"; 2 Bytes)
0x10 0x80 (read-reply = "yes"; 2 Bytes)
0x0F 0x81 (priority = "normal"; 2 Bytes)
0x07 0x07 0x80 0x05 0x11 0x22 0x33 0x44 0x55 (Delivery-Time-Tag, Value-Length, Absolute-Token-Tag, Date-Value-Length, Date-Value; 9 Bytes)

0x08 0x06 0x81 0x04 0x55 0x22 0x33 0x44 (Expiry Tag, Value-Length, Relative-Token-Tag, Delta-Second-Value-Length, Delta-Second-Value; 8 Bytes)

J.2 Coding Example for MMS Issuer/User Connectivity Parameters

0xAB MMS Connectivity Parameters Tag

0x9F (Length = "159")

0x80 MMS Implementation Tag

0x01 (Length = "1")

0x01 (MMS implementation information = "WAP"; 1 Byte)

0x81 MMS Relay/Server Tag

 $0x_{2E17}^{2E17}$ (Length = "4623")

0x68 0x74 0x74 0x70 0x3A 0x2F 0x2F 0x6D 0x6D 0x73 0x2D 0x6F 0x70 0x65 0x72 0x61 0x74 0x6F 0x72 0x2E 0x63 0x6F 0x6D (MMS Relay/Server information = "http://mms-operator.com"; 23 characters; 4623 Bytes)

0x82 Interface to Core Network and Bearer Tag

0x32 (Length = "50")

0x10 0xAA (bearer = "GSM-CSD"; 2 Bytes)
0x08 0x2B 0x34 0x39 0x35 0x33 0x34 0x31 0x39 0x30 0x36 0x00 (address = "+495341906", 12 Bytes)
0x09 0x87 (type of address = "E164"; 2 Bytes)
0x25 0xC5 (speed = "autobauding"; 2 Bytes)
0x0A 0x90 (call type = "ANALOG_MODEM"; 2 Bytes)
0x0C 0x9A (authentication type = "PAP"; 2 Bytes)
0x0D 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x6E 0x61 0x6D 0x65 0x00 (authentication id = "dummy_name"; 12 Bytes)
0x0E 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x70 0x61 0x73 0x73 0x77 0x6F 0x72 0x64 0x00 (authentication pw = "dummy_password"; 16 Bytes)

0x83 Gateway Tag

0x36 (Length = "54")

0x20 0x31 0x37 0x30 0x2E 0x31 0x38 0x37 0x2E 0x35 0x31 0x2E 0x33 0x00 (address = "170.187.51.3"; 14 Bytes)

0x21 0x85 (type of address = "IPv4"; 2 Bytes)

0x23 0x39 0x32 0x30 0x33 0x00 (port = "9203"; 6 Bytes)

0x24 0xCB (service = "CO-WSP"; 2 Bytes)

0x19 0x9C (authentication type = "HTTP BASIC"; 2 Bytes)

0x1A 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x6E 0x61 0x6D 0x65 0x00 (authentication id = "dummy_name"; 12 Bytes)

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CHANGE REQUEST													
H	31.102 CR	143	۴ – ۴	Current ver	sion: 5.4.0 **								
For <u>HELP</u> on	using this form, see	e bottom of this page	e or look at the	pop-up text	over the X symbols.								
Proposed change	e affects: UICC a	apps# <mark>X</mark> ME	E 🗙 Radio Ac	cess Networ	k Core Network								
Title:	# CR 31.102 Rel-5	: Correction of the M	MS example										
Source:	ж <u>ТЗ</u>												
Work item code:	# TEI			Date: %	21-05-2003								
Category:	 A Use <u>one</u> of the foll F (correction) A (correspondent) B (addition on C (functional D (editorial n) Detailed explanation be found in 3GPP 	owing categories:) ds to a correction in al f feature), modification of feature nodification) ons of the above categ <u>TR 21.900</u> .	n earlier release) e) ories can	Release: % Use <u>one</u> of 2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	Rel-5 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)								

Reason for change:	³⁶ Correction of the example of MMS coding in order to avoid misinterpretation.								
Summary of change:	• Correction of the encoding of the MMS User Preference Profile Name in the coding example for MMS User Preferences.								
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Clauses affected:	器 Annex J.1, J.2								
	YN								
Other specs	X Other core specifications %								
affected:	X lest specifications								
Other comments:	¥								

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(profile name = "Christmas Card"; 14 characters, <u>2814</u> Bytes)

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0xAB MMS Connectivity Parameters Tag

0x9F (Length = "159")

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0x08 0x2B 0x34 0x39 0x35 0x33 0x34 0x31 0x39 0x30 0x36 0x00 (address = "+495341906", 12 Bytes)
0x09 0x87 (type of address = "E164"; 2 Bytes)
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For <u>HELP</u> on	using this form, s	ee bottom of this pag	e or look at the	pop-up text	over the X symbols.								
Proposed change	affects: UICC	;apps ೫<mark>∑</mark>M	E X Radio Ac	cess Networ	k Core Network								
Title:	CR 31.102 Rel	-6: Correction of the	MMS example										
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Consequences if a not approved:	³⁶ The current example for the encoding of the MMS User Preference Profile Name Tag in the coding example for MMS User Preferences, stored on the (U)SIM is open to misinterpretation.									
Clauses affected:	f Annex J.1, J.2									
Other specs	Y N % X X Test specifications X O&M Specifications									
Other comments:	£									

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0x07 0x07 0x80 0x05 0x11 0x22 0x33 0x44 0x55 (Delivery-Time-Tag, Value-Length, Absolute-Token-Tag, Date-Value-Length, Date-Value; 9 Bytes)

0x08 0x06 0x81 0x04 0x55 0x22 0x33 0x44 (Expiry Tag, Value-Length, Relative-Token-Tag, Delta-Second-Value-Length, Delta-Second-Value; 8 Bytes)

J.2 Coding Example for MMS Issuer/User Connectivity Parameters

0xAB MMS Connectivity Parameters Tag

0x9F (Length = "159")

0x80 MMS Implementation Tag

0x01 (Length = "1")

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 $0x_{2E17}^{2E17}$ (Length = "4623")

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0x10 0xAA (bearer = "GSM-CSD"; 2 Bytes)
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0x21 0x85 (type of address = "IPv4"; 2 Bytes)

0x23 0x39 0x32 0x30 0x33 0x00 (port = "9203"; 6 Bytes)

0x24 0xCB (service = "CO-WSP"; 2 Bytes)

0x19 0x9C (authentication type = "HTTP BASIC"; 2 Bytes)

0x1A 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x6E 0x61 0x6D 0x65 0x00 (authentication id = "dummy_name"; 12 Bytes)

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Tdoc **#***T*3-030413

Superseeds T3-030177

		CHANGE		UE	51							
ж	31.102	CR <mark>145</mark>	жrev	-	ж	Current vers	^{ion:} 3.12.	<mark>9</mark> ж				
For <u>HELP</u> on	using this foi	m, see bottom of thi	is page or	look a	at the	e pop-up text	over the X s	ymbols.				
Proposed change	Proposed change affects: UICC apps#X MEX Radio Access Network Core Network											
Title:	Correctio	ns and clarifications										
Source:	TSG-T3											
Work item code: 8	f TEI					Date: ೫	21/05/2003					
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Reason for change:	# The FIDs 4F23 and 4F24 are assigned to the CC and PUID files respectively and shall not be used by another file.										
	DF _{USIM} is incorrect, it must read ADF _{USIM} .										
Summary of change:	K Change FID of GRP and GRP1. All references to DF _{USIM} are change to ADF _{USIM} .										
Consequences if not approved:	 if % Inconsistencies within the specification, leading to confusion and misinterpretation 										
Clauses affected:	# 4.4.2, 4.6.2, Annex G										
Other specs affected:	Y N # X Other core specifications # X Test specifications X O&M Specifications										
Other comments:	ff										

Rel-6

(Release 6)

4.4.2 Contents of files at the DF PHONEBOOK level

The UICC may contain a global phonebook, or application specific phonebooks, or both in parallel. When both phonebook types co-exist, they are independent and no data is shared. In this case, it shall be possible for the user to select which phonebook the user would like to access.

It is recommended that the terminal searches for the global phonebook located under $DF_{TELECOM}$ as its presence is not indicated anywhere in the USIM application.

The global phonebook is located in $DF_{PHONEBOOK}$ under $DF_{TELECOM}$. Each specific USIM application phonebook is located in $DF_{PHONEBOOK}$ of its respective Application $\underline{A}DF_{USIM}$. The organization of files in $DF_{PHONEBOOK}$ under $\underline{A}DF_{USIM}$ and under $DF_{TELECOM}$ follows the same rules. Yet $DF_{PHONEBOOK}$ under $\underline{A}DF_{USIM}$ may contain a different set of files than $DF_{PHONEBOOK}$ under $DF_{TELECOM}$. All phonebook related EFs are located under their respective $DF_{PHONEBOOK}$. USIM specific phonebooks are dedicated to application specific entries. Each application specific phonebook is protected by the application PIN.

 EF_{ADN} and EF_{PBR} shall always be present if the $DF_{PHONEBOOK}$ is present. If any phonebook file other than EF_{ADN} or EF_{EXT1} , is used, then EF_{PBC} shall be present.

If a GSM application resides on the UICC, the EFs ADN and EXT1 from one $DF_{PHONEBOOK}$ (defined at GSM application installation) are mapped to $DF_{TELECOM}$. Their file IDs are specified in GSM 11.11 [18], i.e. $EF_{ADN} = '6F3A'$ and $EF_{EXT1} = '6F4A'$, respectively.

If the UICC is inserted into a terminal accessing the ADN and EXT1 files under $DF_{TELECOM}$; and a record in these files has been updated, a flag in the corresponding entry control information in the EF_{PBC} is set from 0 to 1 by the UICC. If the UICC is later inserted into a terminal that supports the 3G phonebook, the terminal shall check the flag in EF_{PBC} and if this flag is set, shall update the EF_{CC} , and then reset the flag. A flag set in EF_{PBC} results in a full synchronization of the phonebook between an external entity and the UICC (if synchronization is requested).

The EF structure related to the public phonebook is located under $DF_{PHONEBOOK}$ in $DF_{TELECOM}$. A USIM specific phonebook may exist for application specific entries. The application specific phonebook is protected by the application PIN. The organization of files in the application specific phonebook follows the same rules as the one specified for the public phone book under $DF_{TELECOM}$. The application specific phonebook may contain a different set of files than the one in the public area under $DF_{TELECOM}$.

4.6.2 Contents of files at the DF_{PHONEBOOK} under the DF_{TELECOM}

This DF has the same structure as $DF_{PHONEBOOK}$ under the <u>A</u>DF_{USIM}.

Annex G (informative): Phonebook Example

This example phonebook has more than 254 entries. Additional number (3 additional numbers) information, second name and e-mail information can be added to each ADN entry. In addition each entry has a 2 byte Unique ID (UID) attached to it. The phonebook also contains three files that are shared EF_{EXT1} , EF_{AAS} and EF_{GAS} . These files are addressed from inside a file. EF_{EXT1} is addressed via EF_{ADN} , EF_{ADN1} , EF_{AAS} is addressed via EF_{ANRA1} , EF_{ANRA1} and EF_{GAS} is addressed via EF_{GRP} . EF_{GRP1}. The phonebook supports two levels of grouping and hidden entries in EF_{PBC} .

Two records are needed in the phonebook reference file PBR '4F30' for supporting more than 254 entries. The content of the phonebook reference file PBR '4F30' records is as shown in table G.2. The structure of the $DF_{PHONEBOOK}$ is shown in table G.1.

The content of phonebook entries in the range from 1-508 is described in the tables G.3 and G.4.



Table G.1: Structure of EFs inside DF_{PHONEBOOK}

Table G.2: Contents of EF_{PBR}

Rec 1 Tag'A8' L='26' (for Phonebook Set1) Tag'C0' L='03' '4F3A' '01' Tag'C5' L='03' '4F09' '02' Tag'C6' L='02' '4F2<u>6</u>3' Tag'C4' L='02' '4F11' Tag'C4' L='02' '4F13' Tag'C4' L='02' '4F15' Tag'C3' L='02' '4F19' Tag'C9' L='02' '4F21' Tag'CA' L='02' '4F50' Tag'AA' L='0C' Tag'C2' L='02' '4F4A' Tag'C7' L='02' '4F4B' Tag'C8' L='02' '4F4C' Rec 2 Tag'A8' L='24' (for Phonebook Set 2) Tag'C0' L='02' |'4F3B' Tag'C5' L='02' |'4F0A' Tag'C6' L='02' |'4F254' Tag'C4' L='02' |'4F12' '4F14' Tag'C4' L='02' '4F16' Tag'C3' L='02' '4F1A' Tag'C9' L='02' Tag'C4' L='02' '4F22' Tag'CA' L='02' '4F51'

Tag'AA' L='0C'

Tag'C2' L='02' |'4F4A' Tag'C7' L='02' |'4F4B' Tag'C8' L='02' |'4F4C | 'FF' | 'FF'

I

Phone	ADN		PBC	GRP	ANRA	ANRB	ANRC	SNF	UID	FXT1	AAS	GAS	FMAII
book	'4F	3A'	'4F09'	'4F263'	'4F11'	'4F13'	'4F15'	'4F19'	'4F21'	'4F4A'	'4F4B'	'4F4C'	'4F50'
entry	SFI	'01'	SFI '02'										
#1	ADN	EXT1	Hidden	Rec n°1	ANRA	ANRB	ANRC	Second	UID	Rec '02'	Record	Record	email
	Content	Ident.	(AID rec	Rec n°3	Rec n°1	Rec n°1	Rec n°1	Name			numbers	no.'s as	address
	Bytes	(Byte	N° 3)	'00'				Alpha			as	defined	
	(1-	X+14):						String			defined in	in GRP	
	(X+13)) Rec '02							-			the ANRs		
# 2	ADN	EXT1	Not	Rec n°2	ANRA	ANRB	ANRC	Second	UID	Rec '2A'	Record	Record	email
	Content	Ident.	Hidden	Rec n°1	Rec n°2	Rec n°2	Rec n°2	Name			numbers	no.'s as	address
	Bytes (Byte			Rec n°3				Alpha			as	defined	
	(1-	X+14):						String			defined in	in GRP	
	(X+13))	Rec '2A'						•			the		
	· //										ANRs		
# 3													
:													
:													
:	1												
# 254													

Table G.3: Structure of the 254 first entries in the phonebook

Table G.4: Structure of phone book entries 255 to 508 (Rec 1-254)

Phone book entry	ADN1 '4F3B'		PBC1 '4F0A'	GRP1 '4F2 <mark>5</mark> 4'	ANRA1 '4F12'	ANRB1 '4F14'	ANRC1 '4F16'	SNE1 '4F1A'	UID1 '4F22'	EXT1 '4F4A'	AAS '4F4B'	GAS '4F4C'	EMAIL1 '4F51'
#255	ADN	EXT1	Hidden	Rec n°1	ANRA1	ANRB1	ANRC1	Second	UID	Rec '02'	Record	Record	email
	Content	Ident.	(AID	Rec n°3	Rec n°1	Rec n°1	Rec n°1	Name			numbers	no.'s as	address
	Bytes	(Byte	Rec n°	'00'				Alpha			as	defined	
	(1- X+14):		3)					String			defined in	in	
	(X+13)) Rec '02'										the ANRs	GRP1	
#256	ADN	EXT1	Not	Rec n°2	ANRA1	ANRB1	ANRC1	Second	UID	Rec '2A'	Record	Record	email
	Content	Ident.	Hidden	Rec n°1	Rec n°2	Rec n°2	Rec n°2	Name				no.'s as	address
	Bytes	(Byte		Rec n°3				Alpha			as	defined	
	(1-	X+14):						String			defined in	in	
	(X+13))	Rec '2A'						-			the ANRs	GRP1	
#257													
:													
:													
:													
#508													

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Figure G.1: Structure and Relations of the Example Phone Book

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For <u>HELP</u> or	า นร	sing this for	m, see l	oottom of th	his page	e or l	ook	at th	e pop-u	o text	over	the X	syn	nbols.
Proposed chang	ie a	affects:	JICC ap	ps # X	ME	E <mark>X</mark>	Rad	dio A	ccess N	etwor	k <mark>–</mark>	Core	Ne	twork
Title:	ж	Correctio	ns and c	larifications	S									
•		TOO TO												
Source:	ж	TSG 13												
Work item code:	ж	TEI							Da	te: X	21/	05/200	3	
													-	
Category:	ж	Α							Releas	se: Ж	Rel	-4		
		Use <u>one</u> of	the follow	ing categori	ies:				Use <u>c</u>	one of t	the fo	llowing	rele	ases:
		F (cor	rection)						2		(GSN	1 Phase	<i>2)</i>	
		A (cor	responds	to a correct	tion in ar	n ear	lier re	eleas	e) R9	96	(Rele	ase 19	96)	
B (addition of feature),									R9	// 10	(Relei (Dolo	ase 19	97)	
C (IUNCTIONAL MODIFICATION OF TEATURE) R98									10 00	(REIE) (Rolo	Release 1998) Release 1000			
		Detailed ex	lanation	s of the abov	ve cateo	ories	can		Re	-4	(Rele	ase 19: ase 4)	99)	
		be found in	3GPP TF	21.900.	to outog	01100	Juli		Re	el-5	(Rele	ase 5)		

Reason for change:	# The FIDs 4F23 and 4F24 are assigned to the CC and PUID files respectively and shall not be used by another file.
	DF _{USIM} is incorrect, it must read ADF _{USIM} .
Summary of change:	Change FID of GRP and GRP1 All references to DF _{USIM} are change to ADF _{USIM} .
Consequences if not approved:	Inconsistencies within the specification, leading to confusion and misinterpretation.
Clauses affected:	₩ 4.4.2, 4.6.2, Annex G
Other specs affected:	YNXOther core specifications%XTest specificationsXO&M Specifications
Other comments:	¥

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(Release 6)

4.4.2 Contents of files at the DF PHONEBOOK level

The UICC may contain a global phonebook, or application specific phonebooks, or both in parallel. When both phonebook types co-exist, they are independent and no data is shared. In this case, it shall be possible for the user to select which phonebook the user would like to access.

It is recommended that the terminal searches for the global phonebook located under $DF_{TELECOM}$ as its presence is not indicated anywhere in the USIM application.

The global phonebook is located in $DF_{PHONEBOOK}$ under $DF_{TELECOM}$. Each specific USIM application phonebook is located in $DF_{PHONEBOOK}$ of its respective Application $\underline{A}DF_{USIM}$. The organization of files in $DF_{PHONEBOOK}$ under $\underline{A}DF_{USIM}$ and under $DF_{TELECOM}$ follows the same rules. Yet $DF_{PHONEBOOK}$ under $\underline{A}DF_{USIM}$ may contain a different set of files than $DF_{PHONEBOOK}$ under $DF_{TELECOM}$. All phonebook related EFs are located under their respective $DF_{PHONEBOOK}$. USIM specific phonebooks are dedicated to application specific entries. Each application specific phonebook is protected by the application PIN.

 EF_{ADN} and EF_{PBR} shall always be present if the $DF_{Phonebook}$ is present. If any phonebook file other than EF_{ADN} or EF_{EXT1} , is used, then EF_{PBC} shall be present.

If a GSM application resides on the UICC, the EFs ADN and EXT1 from one $DF_{PHONEBOOK}$ (defined at GSM application installation) are mapped to $DF_{TELECOM}$. Their file IDs are specified in 3GPP TS 51.011 [18], i.e. $EF_{ADN} = '6F3A'$ and $EF_{EXT1} = '6F4A'$, respectively.

If the UICC is inserted into a terminal accessing the ADN and EXT1 files under $DF_{TELECOM}$; and a record in these files has been updated, a flag in the corresponding entry control information in the EF_{PBC} is set from 0 to 1 by the UICC. If the UICC is later inserted into a terminal that supports the 3G phonebook, the terminal shall check the flag in EF_{PBC} and if this flag is set, shall update the EF_{CC} , and then reset the flag. A flag set in EF_{PBC} results in a full synchronization of the phonebook between an external entity and the UICC (if synchronization is requested).

The EF structure related to the public phonebook is located under $DF_{PHONEBOOK}$ in $DF_{TELECOM}$. A USIM specific phonebook may exist for application specific entries. The application specific phonebook is protected by the application PIN. The organization of files in the application specific phonebook follows the same rules as the one specified for the public phone book under $DF_{TELECOM}$. The application specific phonebook may contain a different set of files than the one in the public area under $DF_{TELECOM}$.

4.6.2 Contents of files at the DF_{PHONEBOOK} under the DF_{TELECOM}

This DF has the same structure as DF_{PHONEBOOK} under the <u>A</u>DF_{USIM}.

Annex G (informative): Phonebook Example

This example phonebook has more than 254 entries. Additional number (3 additional numbers) information, second name and e-mail information can be added to each ADN entry. In addition each entry has a 2 byte Unique ID (UID) attached to it. The phonebook also contains three files that are shared EF_{EXT1} , EF_{AAS} and EF_{GAS} . These files are addressed from inside a file. EF_{EXT1} is addressed via EF_{ADN} , EF_{ADN1} , EF_{AAS} is addressed via EF_{ANRA1} , EF_{ANRA1} and EF_{GAS} is addressed via EF_{GRP} . The phonebook supports two levels of grouping and hidden entries in EF_{PBC} .

Two records are needed in the phonebook reference file PBR '4F30' for supporting more than 254 entries. The content of the phonebook reference file PBR '4F30' records is as shown in table G.2. The structure of the $DF_{PHONEBOOK}$ is shown in table G.1.

The content of phonebook entries in the range from 1-508 is described in the tables G.3 and G.4.



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Tag'AA' L='0C'

Tag'C2' L='02' | '4F4A' Tag'C7' L='02' | '4F4B' Tag'C8' L='02' | '4F4C | 'FF' | 'FF'

Phone	ΔΓ	N	PBC	GRP	ANRA	ANRB	ANRC	SNF	UID	FXT1	AAS	GAS	FMAII
book	'4F3A'		'4F09'	'4F263'	'4F11'	'4F13'	'4F15'	'4F19'	'4F21'	'4F4A'	'4F4B'	'4F4C'	'4F50'
entry	SFI	'01'	SFI '02'										
#1	ADN	EXT1	Hidden	Rec nº1	ANRA	ANRB	ANRC	Second	UID	Rec '02'	Record	Record	email
	Content	Ident.	(AID rec	Rec n°3	Rec nº1	Rec nº1	Rec nº1	Name	• • • •		numbers	no.'s as	address
	Bytes	(Bvte	N° 3)	'00'				Alpha			as defined	defined	
	(1-	X+14):						String			in the	in GRP	
	(X+13))	Rec '02'						5			ANRs	-	
#2	ADN	EXT1	Not	Rec n°2	ANRA	ANRB	ANRC	Second	UID	Rec '2A'	Record	Record	email
	Content	Ident.	Hidden	Rec n°1	Rec n°2	Rec n°2	Rec n°2	Name			numbers	no.'s as	address
	Bytes	(Byte		Rec n°3				Alpha			as defined	defined	
	(1-	X+14):						String			in the	in GRP	
	(X+13))	Rec '2A')			ANRs		
#3													
:													
:													
# 254													

Table G.4: Structure of phone book entries 255 to 508 (Rec 1-254)

Phone book entry	ADN1 '4F3B'		PBC1 '4F0A'	GRP1 '4F2 <mark>5</mark> 4'	ANRA1 '4F12'	ANRB1 '4F14'	ANRC1 '4F16'	SNE1 '4F1A'	UID1 '4F22'	EXT1 '4F4A'	AAS '4F4B'	GAS '4F4C'	EMAIL1 '4F51'
#255	ADN Content Bytes (1- (X+13))	EXT1 Ident. (Byte X+14): Rec '02'	Hidden (AID Rec n° 3)	Rec n°1 Rec n°3 '00'	ANRA1 Rec n°1	ANRB1 Rec n°1	ANRC1 Rec n°1	Second Name Alpha String	UID	Rec '02'	Record numbers as defined in the ANRs	Record no.'s as defined in GRP1	email address
#256	ADN Content Bytes (1- (X+13))	EXT1 Ident. (Byte X+14): Rec '2A'	Not Hidden	Rec n°2 Rec n°1 Rec n°3	ANRA1 Rec n°2	ANRB1 Rec n°2	ANRC1 Rec n°2	Second Name Alpha String	UID	Rec '2A'	Record numbers as defined in the ANRs	Record no.'s as defined in GRP1	email address
#257													
:													
:													
:													
#508													

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Figure G.1: Structure and Relations of the Example Phone Book

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	CHANGE REQUEST	CR-Form-v7								
ж	31.102 CR 147 *rev - *	Current version: 5.4.0 *								
For <mark>HELP</mark> or	using this form, see bottom of this page or look at th	e pop-up text over the X symbols.								
Proposed chang	Proposed change affects: UICC apps # X ME X Radio Access Network Core Network									
l itle:	Corrections and clarifications									
Source:	# TSG T3									
Work item code.	f TEI	Date: # 21/05/2003								
Category:	 A Use <u>one</u> 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 <u>TR 21.900</u>. 	Release: %Rel-5Use one 2(GSM Phase 2)e)R96(Release 1996)R97(Release 1997)R98(Release 1998)R99(Release 1999)Rel-4(Release 4)Rel-5(Release 5)Rel-6(Release 6)								

Reason for change: # The FIDs 4F23 and 4F24 are assigned to the CC and PUID files respectively and shall not be used by another file. DF _{USIM} is incorrect, it must read ADF _{USIM} . Summary of change: # Change FID of GRP and GRP1 All references to DF _{USIM} are change to ADF _{USIM} . Consequences if not approved: # Inconsistencies within the specification, leading to confusion and misinterpretation. Clauses affected: # 4.4.2, 4.6.2, Annex G Other specs affected: # X Other core specifications # Test specifications X O&M Specifications Other comments: #		
shall not be used by another file. DF _{USIM} is incorrect, it must read ADF _{USIM} . Summary of change: # Change FID of GRP and GRP1 All references to DF _{USIM} are change to ADF _{USIM} . Consequences if mot approved: # Inconsistencies within the specification, leading to confusion and misinterpretation. Clauses affected: # 4.4.2, 4.6.2, Annex G Other specs affected: # X Other core specifications 0&M Specifications # Other comments: #	Reason for change:	# The FIDs 4F23 and 4F24 are assigned to the CC and PUID files respectively and
Summary of change: # Change FID of GRP and GRP1 All references to DF _{USIM} are change to ADF _{USIM} . Consequences if not approved: # Inconsistencies within the specification, leading to confusion and misinterpretation. Clauses affected: # 4.4.2, 4.6.2, Annex G Other specs 		shall not be used by another file
DF _{USIM} is incorrect, it must read ADF _{USIM} . Summary of change: # Change FID of GRP and GRP1 All references to DF _{USIM} are change to ADF _{USIM} . Consequences if not approved: # Inconsistencies within the specification, leading to confusion and misinterpretation. Clauses affected: # Y N Other specs affected: # X Other core specifications O&M Specifications Other comments: #		
F_{USIM} is incorrect, it must read ADF_{USIM} . Summary of change: # Change FID of GRP and GRP1 All references to DF_{USIM} are change to ADF_{USIM} . Consequences if not approved: # Inconsistencies within the specification, leading to confusion and misinterpretation. Clauses affected: # 4.4.2, 4.6.2, Annex G Other specs affected: # X Other core specifications affected: # X Other core specifications # Other comments: #		
Summary of change: * Change FID of GRP and GRP1 All references to DF _{USIM} are change to ADF _{USIM} . Consequences if not approved: * Inconsistencies within the specification, leading to confusion and misinterpretation. Clauses affected: * V N Other specs affected: * X Other core specifications O&M Specifications Other comments: *		DF _{USIM} is incorrect, it must read ADF _{USIM} .
Summary of change: # Change FID of GRP and GRP1 All references to DF _{USIM} are change to ADF _{USIM} . Consequences if not approved: # Inconsistencies within the specification, leading to confusion and misinterpretation. Clauses affected: # 4.4.2, 4.6.2, Annex G Other specs affected: # X Other core specifications affected: # X Other core specifications o&M Specifications #		
Consequences if not approved: # Inconsistencies within the specification, leading to confusion and misinterpretation. Clauses affected: # 4.4.2, 4.6.2, Annex G Other specs affected: # X Other specs affected: # Other core specifications X Other core specifications # Other comments: # X	Summary of change:	# Change FID of GRP and GRP1
Consequences if not approved: % Inconsistencies within the specification, leading to confusion and misinterpretation. Clauses affected: % 4.4.2, 4.6.2, Annex G Other specs affected: % X Other core specifications % Other comments: % X Other core specifications %	cannary or orranger	All references to DE
Consequences if not approved: # Inconsistencies within the specification, leading to confusion and misinterpretation. Clauses affected: # 4.4.2, 4.6.2, Annex G Other specs affected: # X Other core specifications # Other comments: # X Other core specifications #		
Consequences if not approved: % Inconsistencies within the specification, leading to confusion and misinterpretation. Clauses affected: % 4.4.2, 4.6.2, Annex G Other specs affected: % X Other core specifications % Other comments: % X Other core specifications %		
not approved: misinterpretation. Clauses affected: # 4.4.2, 4.6.2, Annex G Other specs affected: # X Other core specifications # Other comments: # X Other comments: #	Consequences if	# Inconsistencies within the specification, leading to confusion and
Clauses affected: # 4.4.2, 4.6.2, Annex G Other specs # X other comments: # X Other comments: #	not approved:	misinterpretation
Clauses affected: # 4.4.2, 4.6.2, Annex G Other specs affected: # X Other comments: # X Other comments: #	notappioreal	
Clauses affected: # 4.4.2, 4.6.2, Annex G Other specs affected: # X X Other core specifications O&M Specifications # Other comments: #		
Other specs # X Other core specifications # affected: X X Other core specifications # Other comments: X O&M Specifications #	Clauses affected:	弗 4.4.2, 4.6.2, Annex G
Other specs % X Other core specifications % affected: X Test specifications % X O&M Specifications %		
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4.4.2 Contents of files at the DF PHONEBOOK level

The UICC may contain a global phonebook, or application specific phonebooks, or both in parallel. When both phonebook types co-exist, they are independent and no data is shared. In this case, it shall be possible for the user to select which phonebook the user would like to access.

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 EF_{ADN} and EF_{PBR} shall always be present if the $DF_{Phonebook}$ is present. If any phonebook file other than EF_{ADN} or EF_{EXT1} , is used, then EF_{PBC} shall be present.

If a GSM application resides on the UICC, the EFs ADN and EXT1 from one $DF_{PHONEBOOK}$ (defined at GSM application installation) are mapped to $DF_{TELECOM}$. Their file IDs are specified in 3GPP TS 51.011 [18], i.e. $EF_{ADN} = '6F3A'$ and $EF_{EXT1} = '6F4A'$, respectively.

If the UICC is inserted into a terminal accessing the ADN and EXT1 files under $DF_{TELECOM}$; and a record in these files has been updated, a flag in the corresponding entry control information in the EF_{PBC} is set from 0 to 1 by the UICC. If the UICC is later inserted into a terminal that supports the 3G phonebook, the terminal shall check the flag in EF_{PBC} and if this flag is set, shall update the EF_{CC} , and then reset the flag. A flag set in EF_{PBC} results in a full synchronization of the phonebook between an external entity and the UICC (if synchronization is requested).

The EF structure related to the public phonebook is located under $DF_{PHONEBOOK}$ in $DF_{TELECOM}$. A USIM specific phonebook may exist for application specific entries. The application specific phonebook is protected by the application PIN. The organization of files in the application specific phonebook follows the same rules as the one specified for the public phone book under $DF_{TELECOM}$. The application specific phonebook may contain a different set of files than the one in the public area under $DF_{TELECOM}$.

4.6.2 Contents of files at the DF_{PHONEBOOK} under the DF_{TELECOM}

This DF has the same structure as DF_{PHONEBOOK} under the <u>A</u>DF_{USIM}.

Annex G (informative): Phonebook Example

This example phonebook has more than 254 entries. Additional number (3 additional numbers) information, second name and e-mail information can be added to each ADN entry. In addition each entry has a 2 byte Unique ID (UID) attached to it. The phonebook also contains three files that are shared EF_{EXT1} , EF_{AAS} and EF_{GAS} . These files are addressed from inside a file. EF_{EXT1} is addressed via EF_{ADN} , EF_{ADN1} , EF_{AAS} is addressed via EF_{ANRA1} , EF_{ANRA1} and EF_{GAS} is addressed via EF_{GRP} . The phonebook supports two levels of grouping and hidden entries in EF_{PBC} .

Two records are needed in the phonebook reference file PBR '4F30' for supporting more than 254 entries. The content of the phonebook reference file PBR '4F30' records is as shown in table G.2. The structure of the $DF_{PHONEBOOK}$ is shown in table G.1.

The content of phonebook entries in the range from 1-508 is described in the tables G.3 and G.4.



3

Tag'AA' L='0C'

Tag'C2' L='02' | '4F4A' Tag'C7' L='02' | '4F4B' Tag'C8' L='02' | '4F4C | 'FF' | 'FF'

Phone	A	ON	PBC	GRP	ANRA	ANRB	ANRC	SNE	UID	EXT1	AAS	GAS	EMAIL
book	'4F3A'		'4F09'	'4F2 <mark>63</mark> '	'4F11'	'4F13'	'4F15'	'4F19'	'4F21'	'4F4A'	'4F4B'	'4F4C'	'4F50'
entry	SFI	'01'	SFI '02'	_			-						
#1	ADN	EXT1	Hidden	Rec n°1	ANRA	ANRB	ANRC	Second	UID	Rec '02'	Record	Record	email
	Content	Ident.	(AID rec	Rec n°3	Rec n°1	Rec n°1	Rec n°1	Name			numbers	no.'s as	address
	Bytes	(Byte	N° 3)	'00'				Alpha			as defined	defined	
	(1-	X+14):						String			in the	in GRP	
	(X+13))	Rec '02'									ANRs		
#2	ADN	EXT1	Not	Rec n°2	ANRA	ANRB	ANRC	Second	UID	Rec '2A'	Record	Record	email
	Content	Ident.	Hidden	Rec n°1	Rec n°2	Rec n°2	Rec n°2	Name			numbers	no.'s as	address
	Bytes	(Byte		Rec n°3				Alpha			as defined	defined	
	(1-	X+14):						String			in the	in GRP	
	(X+13))	Rec '2A'									ANRs		
#3													
:													
:													
# 254													

Table G.4: Structure of phone book entries 255 to 508 (Rec 1-254)

Phone book entry	ADN1 '4F3B'		PBC1 '4F0A'	GRP1 '4F2 <mark>5</mark> 4'	ANRA1 '4F12'	ANRB1 '4F14'	ANRC1 '4F16'	SNE1 '4F1A'	UID1 '4F22'	EXT1 '4F4A'	AAS '4F4B'	GAS '4F4C'	EMAIL1 '4F51'
#255	ADN Content Bytes (1- (X+13))	EXT1 Ident. (Byte X+14): Rec '02'	Hidden (AID Rec n° 3)	Rec n°1 Rec n°3 '00'	ANRA1 Rec n°1	ANRB1 Rec n°1	ANRC1 Rec n°1	Second Name Alpha String	UID	Rec '02'	Record numbers as defined in the ANRs	Record no.'s as defined in GRP1	email address
#256	ADN Content Bytes (1- (X+13))	EXT1 Ident. (Byte X+14): Rec '2A'	Not Hidden	Rec n°2 Rec n°1 Rec n°3	ANRA1 Rec n°2	ANRB1 Rec n°2	ANRC1 Rec n°2	Second Name Alpha String	UID	Rec '2A'	Record numbers as defined in the ANRs	Record no.'s as defined in GRP1	email address
#257													
:													
:													
:													
#508													

4

Release 5



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Figure G.1: Structure and Relations of the Example Phone Book

Tdoc **#***T3-030416*

Superseeds T3-030180

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ж		31.102	CR	148	5	жrev	-	ж	Current vers	sion:	6.1	0.	ж
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Category:	¥	Δ							Release [,] ¥	Re	J-6		
Category.	00	Use one of	the follo	wing cated	nories [.]				Use one of	the fo	ollowin	a rele	ases.
		F (cor	rection)	in ig calog	,01100.				2	(GSI	M Pha	se 2)	
		A (cor	respon	ds to a corr	ection	in an eal	lier re	leas	e) R96	(Rele	ease 1	996)	
		B (add	dition of	feature).					R97	(Rele	ease 1	997)	
	C (functional modification of feature) D (editorial modification) R98 (Release 1998) R99 (Release 1999)								998)				
									999)				
		Detailed exp	olanatio	ons of the a	bove c	categories	s can		Rel-4	(Rele	ease 4	ı) ´	
		be found in	3GPP	TR 21.900.		÷			Rel-5	(Rele	ease 5	5)	
									Rel-6	(Rele	ease 6	5)	

Reason for change: ¥	The FIDs 4F23 and 4F24 are assigned to the CC and PUID files respectively and
	shall not be used by another file.
	DF _{USIM} is incorrect, it must read ADF _{USIM} .
Summary of change: #	Change FID of GRP and GRP1 All references to DFusim are change to ADFusim.
Consequences if % not approved:	Inconsistencies within the specification, leading to confusion and misinterpretation.
Clauses affected: #	4.4.2, 4.6.2, Annex G
Other specs # affected:	Y N X Other core specifications % X Test specifications % X O&M Specifications %
Other comments: #	8

4.4.2 Contents of files at the DF PHONEBOOK level

The UICC may contain a global phonebook, or application specific phonebooks, or both in parallel. When both phonebook types co-exist, they are independent and no data is shared. In this case, it shall be possible for the user to select which phonebook the user would like to access.

It is recommended that the terminal searches for the global phonebook located under $DF_{TELECOM}$ as its presence is not indicated anywhere in the USIM application.

The global phonebook is located in $DF_{PHONEBOOK}$ under $DF_{TELECOM}$. Each specific USIM application phonebook is located in $DF_{PHONEBOOK}$ of its respective Application $\underline{A}DF_{USIM}$. The organization of files in $DF_{PHONEBOOK}$ under $\underline{A}DF_{USIM}$ and under $DF_{TELECOM}$ follows the same rules. Yet $DF_{PHONEBOOK}$ under $\underline{A}DF_{USIM}$ may contain a different set of files than $DF_{PHONEBOOK}$ under $DF_{TELECOM}$. All phonebook related EFs are located under their respective $DF_{PHONEBOOK}$. USIM specific phonebooks are dedicated to application specific entries. Each application specific phonebook is protected by the application PIN.

 EF_{ADN} and EF_{PBR} shall always be present if the $DF_{Phonebook}$ is present. If any phonebook file other than EF_{ADN} or EF_{EXT1} , is used, then EF_{PBC} shall be present.

If a GSM application resides on the UICC, the EFs ADN and EXT1 from one $DF_{PHONEBOOK}$ (defined at GSM application installation) are mapped to $DF_{TELECOM}$. Their file IDs are specified in 3GPP TS 51.011 [18], i.e. $EF_{ADN} = '6F3A'$ and $EF_{EXT1} = '6F4A'$, respectively.

If the UICC is inserted into a terminal accessing the ADN and EXT1 files under $DF_{TELECOM}$; and a record in these files has been updated, a flag in the corresponding entry control information in the EF_{PBC} is set from 0 to 1 by the UICC. If the UICC is later inserted into a terminal that supports the 3G phonebook, the terminal shall check the flag in EF_{PBC} and if this flag is set, shall update the EF_{CC} , and then reset the flag. A flag set in EF_{PBC} results in a full synchronization of the phonebook between an external entity and the UICC (if synchronization is requested).

The EF structure related to the public phonebook is located under $DF_{PHONEBOOK}$ in $DF_{TELECOM}$. A USIM specific phonebook may exist for application specific entries. The application specific phonebook is protected by the application PIN. The organization of files in the application specific phonebook follows the same rules as the one specified for the public phone book under $DF_{TELECOM}$. The application specific phonebook may contain a different set of files than the one in the public area under $DF_{TELECOM}$.

4.6.2 Contents of files at the DF_{PHONEBOOK} under the DF_{TELECOM}

This DF has the same structure as DF_{PHONEBOOK} under the <u>A</u>DF_{USIM}.

Annex G (informative): Phonebook Example

This example phonebook has more than 254 entries. Additional number (3 additional numbers) information, second name and e-mail information can be added to each ADN entry. In addition each entry has a 2 byte Unique ID (UID) attached to it. The phonebook also contains three files that are shared EF_{EXT1} , EF_{AAS} and EF_{GAS} . These files are addressed from inside a file. EF_{EXT1} is addressed via EF_{ADN} , EF_{ADN1} , EF_{AAS} is addressed via EF_{ANRA1} , EF_{ANRA1} and EF_{GAS} is addressed via EF_{GRP} . The phonebook supports two levels of grouping and hidden entries in EF_{PBC} .

Two records are needed in the phonebook reference file PBR '4F30' for supporting more than 254 entries. The content of the phonebook reference file PBR '4F30' records is as shown in table G.2. The structure of the $DF_{PHONEBOOK}$ is shown in table G.1.

The content of phonebook entries in the range from 1-508 is described in the tables G.3 and G.4.



Tag'AA' L='0C'

Tag'C2' L='02' | '4F4A' | Tag'C7' L='02' | '4F4B' | Tag'C8' L='02' | '4F4C | 'FF' 'FF'

Phone book	AD '4F:	DN 3A'	PBC '4F09'	GRP '4F2 <mark>63</mark> '	ANRA '4F11'	ANRB '4F13'	ANRC '4F15'	SNE '4F19'	UID '4F21'	EXT1 '4F4A'	AAS '4F4B'	GAS '4F4C'	EMAIL '4F50'
entry	SFI	'01'	SFI '02'										
#1	ADN	EXT1	Hidden	Rec n°1	ANRA	ANRB	ANRC	Second	UID	Rec '02'	Record	Record	email
	Content	Ident.	(AID rec	Rec n°3	Rec n°1	Rec n°1	Rec n°1	Name			numbers	no.'s as	address
	Bytes	(Byte	N° 3)	'00'				Alpha			as defined	defined	
	(1-	X+14):						String			in the	in GRP	
	(X+13))	Rec '02'						_			ANRs		
#2	ADN	EXT1	Not	Rec n°2	ANRA	ANRB	ANRC	Second	UID	Rec '2A'	Record	Record	email
	Content	Ident.	Hidden	Rec n°1	Rec n°2	Rec n°2	Rec n°2	Name			numbers	no.'s as	address
	Bytes	(Byte		Rec n°3				Alpha			as defined	defined	
	(1-	X+14):						String			in the	in GRP	
	(X+13))	Rec '2A'						-			ANRs		
#3													
:													
:													
:													
# 254													

Table G.4: Structure of phone book entries 255 to 508 (Rec 1-254)

Phone book entry	AD '4F	N1 3B'	PBC1 '4F0A'	GRP1 '4F2 <mark>5</mark> 4'	ANRA1 '4F12'	ANRB1 '4F14'	ANRC1 '4F16'	SNE1 '4F1A'	UID1 '4F22'	EXT1 '4F4A'	AAS '4F4B'	GAS '4F4C'	EMAIL1 '4F51'
#255	ADN Content Bytes (1- (X+13))	EXT1 Ident. (Byte X+14): Rec '02'	Hidden (AID Rec n° 3)	Rec n°1 Rec n°3 '00'	ANRA1 Rec n°1	ANRB1 Rec n°1	ANRC1 Rec n°1	Second Name Alpha String	UID	Rec '02'	Record numbers as defined in the ANRs	Record no.'s as defined in GRP1	email address
#256	ADN Content Bytes (1- (X+13))	EXT1 Ident. (Byte X+14): Rec '2A'	Not Hidden	Rec n°2 Rec n°1 Rec n°3	ANRA1 Rec n°2	ANRB1 Rec n°2	ANRC1 Rec n°2	Second Name Alpha String	UID	Rec '2A'	Record numbers as defined in the ANRs	Record no.'s as defined in GRP1	email address
#257													
:													
:													
:													
#508													

Release 6



5

Figure G.1: Structure and Relations of the Example Phone Book

	CHANGE REQUEST	CR-Form-v7					
æ	31.102 CR 149 *rev - *	Current version: 3.12.0 [#]					
For <u>HELP</u> on	For HELP on using this form, see bottom of this page or look at the pop-up text over the # symbols.						
Proposed chang	e affects: UICC apps ೫ Ⅹ ME Ⅹ Radio Ac	ccess Network Core Network					
Title:	Clarification on the support of extra guardtime						
Source:	ж <mark>Т3</mark>						
Work item code:	<mark>π ΤΕΙ</mark>	Date: # 23/05/2003					
Category:	 F Use <u>one</u> 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 <u>TR 21.900</u>. 	Release: % R99 Use <u>one</u> of the following releases: 2 (GSM Phase 2)) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)					

Reason for change: ¥	By referencing ISO 7816-3, SCP 102 221, referenced by TS 31.102, was implicitly requiring the terminal to support the addition of extra guardtimes, if indicated by the card in the ATR. This requirement was not intended by T3, so the specification needs to be corrected. As most terminals did not implement this feature and the UICCs known so far did not count on it, no negative impact is expected from this modification.						
Summary of change: #	Clarify that the ISO mechanism for negociation of extra guardtime does not have to be supported by 3GPP terminals.						
Consequences if % not approved:	Possible interworking problems if future cards expect the feature to be supported, while it is not generally implemented.						
Clauses affected: #	8						
Other specs % affected:	Y N X Other core specifications # X Test specifications # X O&M Specifications #						
Other comments: %							

8 UICC Characteristics

8.1 Voltage classes

A UICC holding a USIM application shall support at least two consecutive voltage classes as defined in TS 31.101 [11], e.g. AB or BC. If the UICC supports more than two classes, they shall all be consecutive, e.g. ABC.

8.2 File Control Parameters (FCP)

This clause defines the contents of the data objects which are part of the FCP information where there is a difference compared to the values as specified in TS 31.101 [11]. This section also specifies values for data objects in the FCP information where there is no exact value given in TS 31.101 [11] and there is a need for such from the USIM application point of view.

8.2.1 Minimum application clock frequency

This data object is indicated by tag '82' in the proprietary constructed data object in the FCP information, identified by tag 'A5', as defined in TS 31.101 [11]. This data object specifies the minimum clock frequency to be provided by the terminal during the USIM session. The value indicated in this data object shall not exceed 3 MHz, corresponding to '1E'. The terminal shall use a clock frequency between the value specified by this data object and the maximum clock frequency for the UICC as defined in TS 31.101 [11]. If this data object is not present in the FCP response or the value is 'FF' then the terminal shall assume that the minimum clock frequency is 1 MHz.

8.3 Interface protocol

No extra guard time, indicated in TC1 in the ATR, needs to be supported when sending characters from the terminal to the card. The terminal may reject a UICC indicating values other than 0 or 255 in TC1.

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־	TEI						Date [.] #	23/05/2003	
							Date. iii	20,00,2000	
Ж	F						Release: Ж	Rel-4	
	Use <u>one</u> of	the folk	owing categories	s:			Use <u>one</u> of	the following re	eleases:
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	B (ad	dition oi	t teature),	.			R97	(Release 1997	2
	C (fur	nctional	modification of i	reature)			K98	(Release 1998	9
	Detailed	itorial m	iodification)				K99	(Release 1999	リ
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Reason for change: ೫	By referencing ISO 7816-3, SCP 102 221, referenced by TS 31.102, was implicitly requiring the terminal to support the addition of extra guardtimes, if indicated by the card in the ATR. This requirement was not intended by T3, so the specification needs to be corrected. As most terminals did not implement this feature and the UICCs known so far did not count on it, no negative impact is expected from this modification.
Summary of change: %	Clarify that the ISO mechanism for negociation of extra guardtime does not have to be supported by 3GPP terminals.
Consequences if % not approved:	Possible interworking problems if future cards expect the feature to be supported, while it is not generally implemented.
Clauses affected: # Other specs # affected:	8 Y N X Other core specifications X Test specifications X O&M Specifications
Other comments: %	

8 UICC Characteristics

The UICC characteristics are defined in TS 31.101 [11]. As TS 31.101 [11] refers to TS 102 221 [37] for the details of the characteristics, and because the scope of TS 102 221 [37] also encompasses other mobile systems, it is necessary to list those issues which are not applicable to the USIM application, which deviate from TS 102 221 [37] or options which require further precision. This clause contains such information.

8.1 Voltage classes

A UICC holding a USIM application shall support at least two consecutive voltage classes as defined in TS 31.101 [11], e.g. AB or BC. If the UICC supports more than two classes, they shall all be consecutive, e.g. ABC.

8.2 File Control Parameters (FCP)

This clause defines the contents of the data objects which are part of the FCP information where there is a difference compared to the values as specified in TS 31.101 [11]. This clause also specifies values for data objects in the FCP information where there is no exact value given in TS 31.101 [11] and there is a need for such from the USIM application point of view.

8.2.1 Minimum application clock frequency

This data object is indicated by tag '82' in the proprietary constructed data object in the FCP information, identified by tag 'A5', as defined in TS 31.101 [11]. This data object specifies the minimum clock frequency to be provided by the terminal during the USIM session. The value indicated in this data object shall not exceed 3 MHz, corresponding to '1E'. The terminal shall use a clock frequency between the value specified by this data object and the maximum clock frequency for the UICC as defined in TS 31.101 [11]. If this data object is not present in the FCP response or the value is 'FF' then the terminal shall assume that the minimum clock frequency is 1 MHz.

8.3 Optional commands

The following command is optional for the USIM application:

- GET CHALLENGE command.

8.4 Interface protocol

No extra guard time, indicated in TC1 in the ATR, needs to be supported when sending characters from the terminal to the card. The terminal may reject a UICC indicating values other than 0 or 255 in TC1.

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Proposed change affects: UICC apps X ME X Radio Access Network Core Network										
Title:	% Clarifica	tion on th	he support of	extra guai	dtim	е				
Source:	<mark>ж Т3</mark>									
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Reason for change: ¥	By referencing ISO 7816-3, SCP 102 221, referenced by TS 31.102, was implicitly requiring the terminal to support the addition of extra guardtimes, if indicated by the card in the ATR.						
	corrected. As most terminals did not implement this feature and the UICCs known so far did not count on it, no negative impact is expected from this modification.						
Summary of change: ¥	Clarify that the ISO mechanism for negociation of extra guardtime does not have to be supported by 3GPP terminals.						
Consequences if % not approved:	Possible interworking problems if future cards expect the feature to be supported, while it is not generally implemented.						
Clauses affected: 9	9.4 now costion added						
Clauses allected.	0.4 new section added						
	Y N						
Other specs %	X Other core specifications %						
affected:	X Test specifications						
	X O&M Specifications						
Other comments: #							

8 UICC Characteristics

The UICC characteristics are defined in TS 31.101 [11]. As TS 31.101 [11] refers to TS 102 221 [37] for the details of the characteristics, and because the scope of TS 102 221 [37] also encompasses other mobile systems, it is necessary to list those issues which are not applicable to the USIM application, which deviate from TS 102 221 [37] or options which require further precision. This clause contains such information.

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8.2 File Control Parameters (FCP)

This clause defines the contents of the data objects which are part of the FCP information where there is a difference compared to the values as specified in TS 31.101 [11]. This clause also specifies values for data objects in the FCP information where there is no exact value given in TS 31.101 [11] and there is a need for such from the USIM application point of view.

8.2.1 Minimum application clock frequency

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8.3 Optional commands

The following command is optional for the USIM application:

- GET CHALLENGE command.

8.4 Interface protocol

No extra guard time, indicated in TC1 in the ATR, needs to be supported when sending characters from the terminal to the card. The terminal may reject a UICC indicating values other than 0 or 255 in TC1.

¥	31.102 CR 153 #rev	- [#] Current version: 5.4.0 [#]					
Eor HELP or	using this form soo bottom of this page or los	ok at the pap up taxt over the 9 symbols					
	For \underline{nclr} on using this form, see bottom of this page of look at the pop-up text over the # symbols.						
Proposed chang	affects: UICC apps % ME X F	adio Access Network Core Network					
Title:	Clarification on SIM support by R5 termina	al					
Source:	б ТЗ						
Work item code:	B TEI	Date:					
Category:	 F Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories categories categories in the second second	Release: %Rel-5Use one 2of the following releases: 22(GSM Phase 2)r release)R96R97(Release 1996)R97(Release 1997)R98(Release 1998)R99(Release 1999)anRel-4Rel-5(Release 5)Rel-6(Release 6)					

Reason for change: #	Alignment with the relevant SA1 specifications						
ger er							
Summary of change:	Clarify that SIM application selection by 3G terminals is not mandatory if no EFdir file is found.						
Consequences if #	Possible interworking problems if future cards expect the feature to be						
not approved:	supported, while it is not generally implemented.						
Clauses affected: #	5.1.1.1						
Other specs % affected:	Y N X Other core specifications % X Test specifications % X O&M Specifications						
Other comments: %							

5.1 USIM management procedures

If a USIM application is present on the UICC, a 3GPP ME shall only use the USIM application regardless of the radio access technology in use. In this case, a possibly existing SIM application shall never be used by a 3GPP ME.

5.1.1 Initialisation

5.1.1.1 USIM application selection

After UICC activation (see TS 31.101 [11]), the ME selects a USIM application. If no EF_{DIR} file is found or no USIM applications are listed in the EF_{DIR} file, the ME may then tryies to select the GSM application as specified in TS 51.011 [18].

NOTE: there may be cards that need to be reset before selecting the GSM application.

After a successful USIM application selection, the selected USIM (AID) is stored on the UICC. This application is referred to as the last selected USIM application. The last selected USIM application shall be available on the UICC after a deactivation followed by an activation of the UICC.

If a USIM application is selected using partial DF name, the partial DF name supplied in the command shall uniquely identify a USIM application. Furthermore if a USIM application is selected using a partial DF name as specified in TS 31.101 [11] indicating in the SELECT command the last occurrence the UICC shall select the USIM application stored as the last USIM application. If, in the SELECT command, the options first, next/previous are indicated, they have no meaning if an application has not been previously selected in the same session and shall return an appropriate error code.

				CHANGE		UE	ST				CR-Form-v7
ж		<mark>31.102</mark>	CR	152	жrev	-	ж	Current vers	^{ion:} 6.1	.0	ж
For <u>HELP</u> or	For <u>HELP</u> 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 X Radio Access Network Core Network											
Title:	ж	Clarificati	on on	SIM support by	<mark>y termina</mark>	ls					
Source:	ж	T3									
Work item code:	:Ж	TEI						Date: ೫	23/05/20	03	
Category:	H	A Use <u>one</u> of F (cor A (cor B (add C (fun D (edd Detailed exp be found in	the foll rection, respon dition of ictional ictional m planatio 3GPP	owing categories ds to a correctio f feature), modification of t podification) ons of the above <u>TR 21.900</u> .	s: on in an ea feature) e categorie	erlier re	elease	Release: ¥ Use <u>one</u> of 2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	Rel-6 the following (GSM Phas (Release 19 (Release 19 (Release 19 (Release 4) (Release 5) (Release 6)	g rele se 2) 996) 997) 998) 999))	ases:

Reason for change: #	Alignment with the relevant SA1 specifications.
Summary of change: #	Clarifies that when no EFdir file is found SIM application selection by 3G terminals is not mandatory.
Consequences if #	
not approved:	
Clauses affected: #	5.1.1.1
	YN

		Υ	Ν			
Other specs	ж		Χ	Other core specifications #	B	
affected:			X X	Test specifications O&M Specifications		
Other comments:	ж		•			

5.1 USIM management procedures

If a USIM application is present on the UICC, a 3GPP ME shall only use the USIM application regardless of the radio access technology in use. In this case, a possibly existing SIM application shall never be used by a 3GPP ME.

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