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

CP-050139

Agenda Item: 9.24

Source: CT6

Title: Rel-6 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 TEI6 CRs

CT doc	CT6 Doc	Spec	CR	Rev	Rel	Title		Cat	WI	Agenda	Status
CP-050139	C6-050342	31.102	283		Rel-6	Clarification of the use of SPN	ce CT6	F	TEI6	11.3.1	Agreed
CP-050139	C6-050369	31.102			Rel-6			F	TEI6	11.3.1	Agreed
CP-050139	C6-050370	31.102	272		Rel-7	Essential correction of the 'hidden key' coding	CT6	A	TEI6	11.3.1	Agreed
CP-050139	C6-050371	31.102			Rel-6	Added EF_ARR under DF_TELECOM	MCC	F	TEI6	11.3.1	Agreed
CP-050139	C6-050372	31.102	285		Rel-7	Added EF_ARR under DF_TELECOM	MCC	Α	TEI6	11.3.1	Agreed
CP-050139	C6-050373	31.102	279		Rel-6	Modifications regarding WLAN	CT6	F	TEI6	11.3.1	Agreed
CP-050139	C6-050374	31.102			Rel-7	Modifications regarding WLAN	CT6	Α	TEI6	11.3.1	Agreed
CP-050139	C6-050375	31.102			Rel-6	Alignment of MBMS procedures with TS 33.246	CT6	F	TEI6	11.3.1	Agreed
CP-050139	C6-050376	31.102	282		Rel-7	Alignment of MBMS procedures with TS 33.246	CT6	Α	TEI6	11.3.1	Agreed
CP-050139	C6-050394	31.121	068		Rel-6	Introduction of BCD number/ SSC content extension tests	CT6	В	TEI6	14.1.1	Agreed
CP-050139	C6-050396	31.121	072		Rel-6	Introduction of ACL tests	CT6	В	TEI6	14.1.1	Agreed
CP-050139	C6-050403	31.102	286		Rel-6	Number of stored MSKs	CT6	F	TEI6	11.3.1	Agreed
CP-050139	C6-050404	31.102	287		Rel-7	Number of stored MSKs	CT6	Α	TEI6	11.3.1	Agreed
CP-050139	C6-050405	31.102	269	1	Rel-6	Clarification on ADM access condition	CT6	F	TEI6	11.3.1	Agreed
CP-050139	C6-050422	31.130	010		Rel-6	Align paragraph numbering between 31.130 and TS 102 241	CT6	F	TEI6	12.3.1	Agreed
CP-050139	C6-050423	31.130	012		Rel-6	Delete version and author info from the Java source code	CT6	F	TEI6	12.3.1	Agreed
CP-050139	C6-050436	31.121	073		Rel-6	Introduction of SDN tests	CT6	В	TEI6	14.1.1	Agreed
CP-050139	C6-050443	31.111	143		Rel-6	Correction to incomplete references	CT6	F	TEI6	12.1.1	Agreed
CP-050139	C6-050445	31.130	011		Rel-7	Align paragraph numbering between 31.130 and TS 102 241	CT6	Α	TEI6	12.3.1	Agreed
CP-050139	C6-050446	31.130	013		Rel-7	Delete version and author info from the Java source code	CT6	Α	TEI6	12.3.1	Agreed
CP-050139	C6-050447	31.116	010		Rel-6	Introduction of an explicit description of the ISIM RFM mechanism	CT6	В	TEI6	13.1	Agreed
CP-050139	C6-050452	31.121	074		Rel-6	Introduction of phonebook selection/ local phonebook handling tests	CT6	В	TEI6	14.1.1	Agreed
CP-050139	C6-050472	31.111	145		Rel-6	Addition of missing values in Proactive commands versus possible	CT6	F	TEI6	12.1.1	Agreed
						Terminal response					
CP-050139	C6-050473	31.111	146		Rel-6	Clarification for SMS PP Data Download	CT6	F	TEI6	12.1.1	Agreed
CP-050139	C6-050478	31.102	289		Rel-7	Essential correction of phonebook support	CT6	Α	TEI6	11.3.1	Agreed
CP-050139	C6-050479	31.102	288		Rel-6	Essential correction of phonebook support	CT6	F	TEI6	11.3.1	Agreed
CP-050139	C6-050482	31.102	290		Rel-6	Corrections to eMLPP and AAeM	CT6	F	TEI6	11.3.1	Agreed
CP-050139	C6-050483	31.102	291		Rel-7	Corrections to eMLPP and AAeM	CT6	Α	TEI6	11.3.1	Agreed

TDoc C6-050342

3GPP TSG CT WG6 Meeting #35 Cancun, Mexico, 26th – 29th April 2005

(revised from T3-050081)

	CHANGE REQU	EST
*	31.102 CR 283 #rev -	光 Current version: 6.9.0 ^第
For <u>HELP</u> on usi	ing this form, see bottom of this page or loo	k at the pop-up text over the 発 symbols.
Proposed change at	<i>ffects:</i> UICC apps ⋇ ME X Ra	adio Access Network Core Network
Title: 第	Clarification of the use of SPN	
Source: #	CT6	
Work item code: ₩	TEI	Date: 第 29/04/2005
	F Use one 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 cape found in 3GPP TR 21.900.	R97 (Release 1997) R98 (Release 1998) R99 (Release 1999)
Reason for change:	It is not clear which name – the "regist	tered PLMN name" or/and the "service n regard to the "display conditions" specified
Summary of change	Replaced the terms "required" and "no "Display Condition" by "shall be displa Added a table in a note summarizing v	yed" or "shall not be displayed".
Consequences if not approved:	器 Misalignment with SA1 specifications. Inconsistent implementations across h	
Clauses affected: Other specs affected:	# 4.2.12 Y N X Other core specifications X Test specifications O&M Specifications	TS 22.101, see S1-050518
Other comments:	≝ Equivalent CR needed for Rel-7	

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:

- 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.

4.2.12 EF_{SPN} (Service Provider Name)

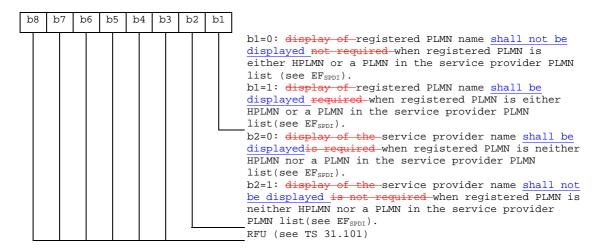
This EF contains the service provider name and appropriate requirements for the display by the ME.

Identifier: '6F46'		Structure: transparent			Optional	
Fil	e Size: 17 bytes		Update	low		
Access Condition READ UPDAT DEACT ACTIVA	E IVATE	ALWA ADM ADM ADM	YS			
Bytes		Description	<u> </u>	M/O	Length	
1 Display Condition			М	1 byte		
2 to 17	Service Provider	Name		М	16 bytes	

- Display Condition

Contents: display condition for the service provider name in respect to the registered PLMN (see TS 22.101[24]).

Coding:



Service Provider Name

Contents:

service provider string

Coding:

the string shall use:

- either the SMS default 7-bit coded alphabet as defined in TS 23.038 [5] with bit 8 set to 0. The string shall be left justified. Unused bytes shall be set to 'FF'.
- or one of the UCS2 code options defined in the annex of TS 31.101 [11].

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

Tdoc #C6-050369

(revised from C6-050215 and C6-050249)

	С	HANG	E REQ	UES	ST		C	CR-Form-v7.1
*	31.102 CR	271	≋rev	- 8	¥	Current version:	6.9.0	¥
r UELD	on using this form soci			11	, ₍₁ -		. 11 00	

For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the **#** symbols.

Proposed char	ige a	affects:	UICC apps光 <mark>X</mark>	ME <mark>X</mark>	Radio Acc	ess Networ	ck Core Ne	etwork
Title:	Ж	Essent coding)	ial corrections of the p	honebook (a	ccess to r	napped file	d & "hidden ke	y"
Source:	\mathfrak{R}	CT6						
Work item cod	e: Ж	TEI-6				Date: ₩	27/04/2005	
Category:	**	Use <u>one</u> F (c A (c B (a C (i D (c) Detailed	of the following categoric correction) corresponds to a correct addition of feature), functional modification of editorial modification) explanations of the above in 3GPP TR 21.900.	ion in an earlie f feature)	er release)	Release: # Use <u>one</u> of Ph2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6 Rel-7	Rel-6 the following relations (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6) (Release 7)	eases:

Reason for change: 第	The coding of EF(hiddenkey) is not sufficiently described. A 3G ME shall neither access EF _{ADN} nor EF _{EXT1} nor EF _{CCP1} under MF\DF _{TELECOM} , it's already specified for EF _{ADN} but not EF _{EXT1} nor EF _{CCP1}
Summary of change: #	Clarified the order of the digits in EF(hiddenkey) Clarified that a 3G ME shall not access EF _{EXT1} nor EF _{CCP1} under MF\DF _{TELECOM} .
Consequences if # not approved:	Critical interoperability problems of the phonebook; for instance some entries entered with one ME would not be accessible with another ME

Clauses affected:	# 4.2.42
Other specs affected:	Y N X Other core specifications X Test specifications O&M Specifications A CR on 31.121 would be desirable
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 \$\mathbb{X}\$ 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.

4.2.42 EF_{Hiddenkey} (Key for hidden phone book entries)

This EF contains the hidden key that has to be verified by the ME in order to display the phone book entries that are marked as hidden. The hidden key can consist of 4 to 8 digits.

Identifie	er: '6FC3'	Structure: transparent			Optional	
F	ile size: 4 bytes		Update	: low		
Access Condition READ UPDAT		PIN PIN				
DEACTIVATE ACTIVATE		ADM ADM				
Bytes	Descriptio		า	M/O	Length	
1 to 4	Hidden Key			М	4 bytes	

Hidden Key.

Coding:

- the hidden key is coded on 4 bytes using BCD coding. The minimum number of digits is 4. Unused digits are padded with 'F'.

NOTE 1: Digits are not swapped, i.e. for instance the key "1234" is coded as '12 34 FF FF'.

NOTE <u>2</u>: The phone book entries marked as hidden are not scrambled by means of the hidden key. They are stored in plain text in the phone book.

4.5 Contents of EFs at the TELECOM level

The EFs in the Dedicated File $DF_{TELECOM}$ contain service related information.

4.5.1 EF_{ADN} (Abbreviated dialling numbers)

In case of a present GSM application on the UICC the first EF_{ADN} (i.e. reflected by the first record in EF_{PBR}) of the $DF_{PHONEBOOK}$ is mapped (with an identifier equal to '6F3A') to $DF_{TELECOM}$ to ensure backwards compatibility.

A 3G ME shall not access this file. The information is accessible for a 3G ME in EF_{ADN} under DF_{PHONEBOOK}.

4.5.2 EF_{EXT1} (Extension1)

In case of a present GSM application on the UICC the first EF_{EXT1} (i.e. reflected by the first record in EF_{PBR}) of the $DF_{PHONEBOOK}$ is mapped (with an identifier equal to '6F4A') to $DF_{TELECOM}$ to ensure backwards compatibility.

A 3G ME shall not access this file. The information is accessible for a 3G ME in EF_{EXT1} under DF_{PHONEBOOK}.

4.5.3 EF_{ECCP} (Extended Capability Configuration Parameter)

In case of a present GSM application on the UICC the first EF_{CCP1} (i.e. reflected by the first record in EF_{PBR}) of the $DF_{PHONEBOOK}$ is mapped (with an identifier equal to '6F4F') to $DF_{TELECOM}$ to ensure backwards compatibility. There shall not be any EF_{CCP} (with a file-id of '6F3D') under $DF_{TELECOM}$ because otherwise a GSM terminal could create inconsistencies within the phonebook.

A 3G ME shall not access this file. The information is accessible for a 3G ME in EF_{CCPI} under DF_{PHONEBOOK}.

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

Tdoc # C6-050370

(equivalent to C6-050369)

	С	HANGI	E REQ	UES	ST	•	(CR-Form-v7.1
*	31.102 CR	272	жrev	-	¥	Current version:	7.0.0	¥
F. UELD	an vaina (hia fama ana)							

For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the **%** symbols.

Proposed chang	ge a	affects:	UICC apps郑 X	M	IE 🗶 Radio Ac	cess Networ	k Core N	etwork 🔃
Title:	\mathbb{H}	Essenti	ial correction of the	e phonebo	ook (access to r	napped filed	& "hidden key	/" coding)
Source:	Ж	CT6						
Work item code	· 9£	TEI-6				Date: ₩	27/04/2005	
Work nem oode	00	1210				Date. 00	2170-1/2000	
Category:	${\mathbb H}$	Α				Release: ₩	Rel-7	
		Use <u>one</u>	of the following cates	gories:			the following rel	eases:
		F (c	correction)			Ph2	(GSM Phase 2)	1
		•	corresponds to a cor	rection in a	an earlier release)		(Release 1996)	1
			addition of feature),			R97	(Release 1997)	1
		•	functional modificatio		·e)	R98	(Release 1998)	
		,	editorial modification,	•		R99	(Release 1999)	1
		Detailed of	explanations of the a	above cate	gories can	Rel-4	(Release 4)	
		be found	in 3GPP TR 21.900.			Rel-5	(Release 5)	
						Rel-6	(Release 6)	
						Rel-7	(Release 7)	

Reason for change: ₩	The coding of EF(hiddenkey) is not sufficiently described.
	A 3G ME shall neither access EF _{ADN} nor EF _{EXT1} nor EF _{CCP1} under MF\DF _{TELECOM} .
	it's already specified for EF _{ADN} but not EF _{EXT1} nor EF _{CCP1}
Summary of change: ₩	Clarified the order of the digits in EF(hiddenkey)
	Clarified that a 3G ME shall not access EF _{EXT1} nor EF _{CCP1} under MF\DF _{TELECOM} .
Consequences if	Critical interoperability problems of the phonebook; for instance some entries
not approved:	entered with one ME would not be accessible with another ME

Clauses affected:	策 4.2.42
Other specs affected:	Y N X Other core specifications Test specifications O&M Specifications X A CR on 31.121 would be desirable
Other comments:	x

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4.2.42 EF_{Hiddenkey} (Key for hidden phone book entries)

This EF contains the hidden key that has to be verified by the ME in order to display the phone book entries that are marked as hidden. The hidden key can consist of 4 to 8 digits.

Identifier: '6FC3'		Stru	Structure: transparent		Optional
F	ile size: 4 bytes		Update	activity	: low
Access Condition READ UPDAT		PIN PIN			
DEACT ACTIVA	IVATE	ADM ADM			
Bytes		Description	า	M/O	Length
1 to 4	Hidden Key			М	4 bytes

Hidden Key.

Coding:

the hidden key is coded on 4 bytes using BCD coding. The minimum number of digits is 4. Unused digits are padded with 'F'.

NOTE 1: Digits are not swapped, i.e. for instance the key "1234" is coded as '12 34 FF FF'.

NOTE <u>2</u>: The phone book entries marked as hidden are not scrambled by means of the hidden key. They are stored in plain text in the phone book.

4.5 Contents of EFs at the TELECOM level

The EFs in the Dedicated File $DF_{TELECOM}$ contain service related information.

4.5.1 EF_{ADN} (Abbreviated dialling numbers)

In case of a present GSM application on the UICC the first EF_{ADN} (i.e. reflected by the first record in EF_{PBR}) of the $DF_{PHONEBOOK}$ is mapped (with an identifier equal to '6F3A') to $DF_{TELECOM}$ to ensure backwards compatibility.

A 3G ME shall not access this file. The information is accessible for a 3G ME in EF_{ADN} under DF_{PHONEBOOK}.

4.5.2 EF_{EXT1} (Extension1)

In case of a present GSM application on the UICC the first EF_{EXT1} (i.e. reflected by the first record in EF_{PBR}) of the $DF_{PHONEBOOK}$ is mapped (with an identifier equal to '6F4A') to $DF_{TELECOM}$ to ensure backwards compatibility.

A 3G ME shall not access this file. The information is accessible for a 3G ME in EF_{EXT1} under DF_{PHONEBOOK}.

4.5.3 EF_{ECCP} (Extended Capability Configuration Parameter)

In case of a present GSM application on the UICC the first EF_{CCP1} (i.e. reflected by the first record in EF_{PBR}) of the $DF_{PHONEBOOK}$ is mapped (with an identifier equal to '6F4F') to $DF_{TELECOM}$ to ensure backwards compatibility. There shall not be any EF_{CCP} (with a file-id of '6F3D') under $DF_{TELECOM}$ because otherwise a GSM terminal could create inconsistencies within the phonebook.

A 3G ME shall not access this file. The information is accessible for a 3G ME in EF_{CCPI} under DF_{PHONEBOOK}.

3GPP TSG CT WG6 Meeting #35 Cancun, Mexico, 26th – 29th April 2005

Tdoc # C6-050371

Revised C6-050251

		CHANG	SE REQ	UE	ST		C	CR-Form-v7.1
ж	31.102	CR <mark>284</mark>	жrev	-	ж	Current version:	6.9.0	ж
Cor UE	I P on using this for	m ass bottom of	this page or	look	04 4h	o non un tout que	, the 90 ever	mhala

For <u>HELP</u> o	n using this form, see bottom of this page or look at the p	op-up text over the ₩ symbols.
Proposed chang	ge affects: UICC apps≋ X ME X Radio Acce	ess Network Core Network
Title:	★ Added EF_ARR under DF_TELECOM	
Source:	₩ MCC	
Work item code	:策 <mark>TEI-6</mark>	Date: 第 27/04/2005
Category:		elease: 第 Rel-6 Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996)
	B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can	R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4)
	be found in 3GPP TR 21.900.	Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)
Reason for char	rge: # The description of EF _{ARR} (Access Rule Referent the current specification due to an incorrect CR description of EF _{ARR} is available in the previous	implementation by the MCC. The
Summary of abo	Added the description of EE (Access Bule Bo	foreses) wader DE

Reason for change:
The description of EF_{ARR} (Access Rule Reference) under DF_{TELECOM} is missed in the current specification due to an incorrect CR implementation by the MCC. The description of EF_{ARR} is available in the previous releases (R99 – Rel-5).

**Summary of change: # Added the description of EF_{ARR} (Access Rule Reference) under DF_{TELECOM}

**Consequences if not approved: # The description of EF_{ARR} (Access Rule Reference) under DF_{TELECOM} is missed in the specification. If it is not implemented in the specification it could lead to backwards compatibility problems.

Clauses affected:	策 4.5.X (added)
	YN
Other specs	X Other core specifications 米
Affected:	X Test specifications
	X O&M Specifications
Other comments:	X

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- downloaded from the 3GPP server under $\underline{\text{ftp://ftp.3gpp.org/specs/}}$ 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.

4.5 Contents of EFs at the TELECOM level

The EFs in the Dedicated File DF_{TELECOM} contain service related information.

4.5.1 EF_{ADN} (Abbreviated dialling numbers)

In case of a present GSM application on the UICC the first EF_{ADN} (i.e. reflected by the first record in EF_{PBR}) of the $DF_{PHONEBOOK}$ is mapped (with an identifier equal to '6F3A') to $DF_{TELECOM}$ to ensure backwards compatibility.

A 3G ME shall not access this file. The information is accessible for a 3G ME in EF_{ADN} under DF_{PHONEBOOK}.

4.5.2 EF_{EXT1} (Extension1)

In case of a present GSM application on the UICC the first EF_{EXT1} (i.e. reflected by the first record in EF_{PBR}) of the $DF_{PHONEBOOK}$ is mapped (with an identifier equal to '6F4A') to $DF_{TELECOM}$ to ensure backwards compatibility.

4.5.3 EF_{ECCP} (Extended Capability Configuration Parameter)

In case of a present GSM application on the UICC the first EF_{CCP1} (i.e. reflected by the first record in EF_{PBR}) of the $DF_{PHONEBOOK}$ is mapped (with an identifier equal to '6F4F') to $DF_{TELECOM}$ to ensure backwards compatibility. There shall not be any EF_{CCP} (with a file-id of '6F3D') under $DF_{TELECOM}$ because otherwise a GSM terminal could create inconsistencies within the phonebook.

4.5.4 EF_{SUME} (SetUpMenu Elements)

This File is defined in TS 102 222[39], and has the file identifier '6F54'.

4.5.X EF_{ARR} (Access Rule Reference)

This EF contains the access rules for files located under the DF_{TELECOM} in the UICC. If the security attribute tag '8B' is indicated in the FCP it contains a reference to a record in this file.

Structure of EFARR at DFTelecom-level

Identifie	Identifier: '6F06'		Structure: Linear fixed		<u>Mandatory</u>	
Reco	ord length: X bytes		<u>Update</u>	Update activity: low		
Access Condition READ		ALW				
UPDAT	<u> </u>	ADM				
DEACT	IVATE	ADM				
ACTIVA	TE	ADM				
<u>Bytes</u>		Description	<u>1</u>	M/O	<u>Length</u>	
<u>1 to X</u>	Access Rule TLV	data objects		M	X bytes	

This EF contains one or more records containing access rule information according to the reference to expanded format as defined in ISO/IEC 7816-4 [20]. Each record represents an access rule. Unused bytes in the record are set to 'FF'.

If the card cannot access EF_{ARR}, any attempt to access a file with access rules indicated in this EF_{ARR} shall not be granted.

3GPP TSG CT WG6 Meeting #35 Cancun, Mexico, 26th – 29th April 2005

Tdoc # C6-050372

Revised C6-050252

		CHANG	E REQ	UE	ST		C	CR-Form-v7.1
ж	31.102	CR 285	жrev	-	¥	Current version:	7.0.0	æ
Ear U	ELP on using this for	m and battam of th	io nogo or	look	ot th	o non un toyt ovo	r the 9f ever	mholo

For <u>HELP</u> o	n usin	g this	form, see bo	ottom of this p	age or lo	ok at the p	oop-up text	over the	e ₩ symbo	ols.
Proposed chang			UICC app	_			ess Networ		Core Netwo	
Title:	₩ A	dded I	EF_ARR un	der DF_TELE	СОМ					
Source:	%	/ICC								
Work item code	:₩ T	El-7					Date: ₩	27/04	/2005	
Category:	De	se <u>one</u> F (c A (c B (a C (f D (a	correction) corresponds t addition of fea functional mo editorial modi	dification of fea fication) of the above ca	ture)	er release)	Release: # Use <u>one</u> of Ph2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6 Rel-7		hase 2) e 1996) e 1997) e 1998) e 1999) e 4) e 5) e 6)	эs:
Reason for char	nge:	the	current spe	of EF _{ARR} (Accidence of the control	to an inc	correct CF	Rimplemen	tation b	y the MCC	

Reason for change:

The description of EF_{ARR} (Access Rule Reference) under DF_{TELECOM} is missed in the current specification due to an incorrect CR implementation by the MCC. The description of EF_{ARR} is available in the previous releases (R99 – Rel-5).

Summary of change:

Added the description of EF_{ARR} (Access Rule Reference) under DF_{TELECOM}

The description of EF_{ARR} (Access Rule Reference) under DF_{TELECOM} is missed in the specification. If it is not implemented in the specification it could lead to backwards compatibility problems.

Clauses affected:	策 4.5.X (added)
Other specs Affected:	Y N X Other core specifications X Test specifications O&M Specifications
Other comments:	x

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 \(\mathcal{H} \) 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 $\underline{\text{ftp://ftp.3gpp.org/specs/}}$ 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.

4.5 Contents of EFs at the TELECOM level

The EFs in the Dedicated File DF_{TELECOM} contain service related information.

4.5.1 EF_{ADN} (Abbreviated dialling numbers)

In case of a present GSM application on the UICC the first EF_{ADN} (i.e. reflected by the first record in EF_{PBR}) of the $DF_{PHONEBOOK}$ is mapped (with an identifier equal to '6F3A') to $DF_{TELECOM}$ to ensure backwards compatibility.

A 3G ME shall not access this file. The information is accessible for a 3G ME in EF_{ADN} under DF_{PHONEBOOK}.

4.5.2 EF_{EXT1} (Extension1)

In case of a present GSM application on the UICC the first EF_{EXT1} (i.e. reflected by the first record in EF_{PBR}) of the $DF_{PHONEBOOK}$ is mapped (with an identifier equal to '6F4A') to $DF_{TELECOM}$ to ensure backwards compatibility.

4.5.3 EF_{ECCP} (Extended Capability Configuration Parameter)

In case of a present GSM application on the UICC the first EF_{CCP1} (i.e. reflected by the first record in EF_{PBR}) of the $DF_{PHONEBOOK}$ is mapped (with an identifier equal to '6F4F') to $DF_{TELECOM}$ to ensure backwards compatibility. There shall not be any EF_{CCP} (with a file-id of '6F3D') under $DF_{TELECOM}$ because otherwise a GSM terminal could create inconsistencies within the phonebook.

4.5.4 EF_{SUME} (SetUpMenu Elements)

This File is defined in TS 102 222[39], and has the file identifier '6F54'.

4.5.X EF_{ARR} (Access Rule Reference)

This EF contains the access rules for files located under the DF_{TELECOM} in the UICC. If the security attribute tag '8B' is indicated in the FCP it contains a reference to a record in this file.

Structure of EFARR at DFTelecom-level

Identifie	Identifier: '6F06'		Structure: Linear fixed		<u>Mandatory</u>
Reco	ord length: X bytes	3	Update activity: low		
Access Condition	ons:	ALW			
UPDATI	E	ADM			
DEACTI	IVATE	ADM			
ACTIVA	TE	ADM			
<u>Bytes</u>		Description	<u>1</u>	M/O	<u>Length</u>
<u>1 to X</u>	Access Rule TLV	data objects		M	X bytes

This EF contains one or more records containing access rule information according to the reference to expanded format as defined in ISO/IEC 7816-4 [20]. Each record represents an access rule. Unused bytes in the record are set to 'FF'.

If the card cannot access EF_{ARR}, any attempt to access a file with access rules indicated in this EF_{ARR} shall not be granted.

3GPP TSG CT WG6 Meeting #35 Cancun, Mexico, 26th – 29th April 2005

Tdoc **#** *C6-050373*

Revised C6-050257

	CHANGE REQUEST	CR-Form-v7.1
*	31.102 CR 279 # rev - # C	Current version: 6.9.0
For <u>HELP</u> on	using this form, see bottom of this page or look at the p	pop-up text over the 業 symbols.
Proposed change	e affects: UICC apps第 <mark>X</mark> ME <mark>X</mark> Radio Acc	ess Network Core Network
Title:	Modifications regarding WLAN	
Source:	€ CT6	
Work item code:	€ TEI-6	Date: 第 28/04/2005
Category:	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.	Release: # Rel-6 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 chang	 Several references and descriptions of the Value of PLMN entries in TS 24.234 – 10 entries, not as specified in TS 24.234 – Abbreviations regarding WLAN completed Added the complete references and complete references. 	WLAN files are incomplete. WLAN files should be – regarding TS 31.102 - 8 entries. eted the description of WLAN files.
Consequences if	 Modified minimum number of PLMN entries The descriptions for WLAN are incomplete. TS 	

Clauses affected:	3.3 ; 4.4.5; 4.5.1.1; 4.4.5.2; 4.4.5.3; 4.4.5.4; 4.4.5.5; 5.6.1; 5.6.2; 5.6.3.
Other specs Affected:	Y N X Other core specifications 第 Test specifications O&M Specifications
Other comments:	*

the requirements specified in TS 23.234.

How to create CRs using this form:

not approved:

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:

- 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.

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

3GPP 3rd Generation Partnership Project

AC Access Condition ACL APN Control List

ADF Application Dedicated File AID Application IDentifier AK Anonymity key

ALW ALWays

AMF Authentication Management Field

AoC Advice of Charge APN Access Point Name

ASN.1 Abstract Syntax Notation One

AuC Authentication Centre
AUTN Authentication token
BDN Barred Dialling Number
BER-TLV Basic Encoding Rule - TLV

B-TID Bootstrapping Transaction IDentifier CCP Capability Configuration Parameter

CK Cipher key

CLI Calling Line Identifier
CNL Co-operative Network List
CPBCCH COMPACT Packet BCCH

CS Circuit switched

DCK Depersonalisation Control Keys

DF Dedicated File
DO Data Object
EF Elementary File
FCP File Control Parameters
FFS For Further Study

GSM Global System for Mobile communications

HE Home Environment
ICC Integrated Circuit Card
ICI Incoming Call Information
ICT Incoming Call Timer

ID IDentifier

IEI Information Element Identifier

IK Integrity key

IMSI International Mobile Subscriber Identity

K USIM Individual key

K_C Cryptographic key used by the cipher A5

KSI Key Set Identifier
LI Language Indication
LSB Least Significant Bit
MAC Message authentication code

MAC Message authentication code

MAC-A MAC used for authentication and key agreement MAC-I MAC used for data integrity of signalling messages

MBMS Multimedia Broadcast/Multicast Service

MCC Mobile Country Code

MExE Mobile Execution Environment

MF Master File

MGV-F MTK Generation and Validation Function

MIKEY Multimedia Internet KEYing

MM Multimedia Message
MMI Man Machine Interface
MMS Multimedia Messaging Service

MNC Mobile Network Code

MODE Indication packet switched/circuit switched mode

MSB Most Significant Bit

MSK MBMS Service Key MBMS Traffic Key MTK MBMS User Key MUK **NEV NEVer** NPI Numbering Plan Identifier OCI **Outgoing Call Information** OCT Outgoing Call Timer **PBID** Phonebook Identifier PIN Personal Identification Number PL Preferred Languages PS Packet switched PS_DO PIN Status Data Object **RAND** Random challenge Random challenge stored in the USIM $RAND_{MS}$ User response RES Reserved for Future Use **RFU RST** Reset **SDN** Service dialling number Security Environment SE Sequence number for MGV-F **SEQs** SEQp Sequence number for MGV-F stored in the USIM SFI Short EF Identifier **SGSN** Serving GPRS Support Node Serving Network SN SQN Sequence number Signed RESponse calculated by a USIM SRES SWStatus Word TLV Tag Length Value **USAT USIM Application Toolkit** Universal Subscriber Identity Module **USIM** Visitor Location Register **VLR WLAN** Wireless Local Area Network

[...]

WSID

XRES

4.4.5 Contents of files at the DF WLAN level

WLAN Specific Identifier

Expected user RESponse

This clause describes the additional files that are used for WLAN purposes.

 DF_{WLAN} shall be present at the ADF_{USIM} level if either of the services n°59, n°60, n°61, n°62, n°63 or n°66 are "available" allocated in the corresponding EF_{UST} (USIM Service Table).

4.4.5.1 EF_{Pseudo} (Pseudonym)

This EF contains a temporary user identifier (pseudonym) for subscriber identification. Pseudonyms may be provided as part of a previous authentication sequence. Pseudonyms are used as defined in <u>TS 24.234 [40]</u>. This file shall be present if service n°59 is <u>"available" allocated in EF_{UST}.</u>

Identifier	: '4F41' Stru		ucture: Transparent		Optional
	SFI : '01'				
File size	e: Y bytes (Y≥n+	-2)	Update activity: high		
Access Conditio READ UPDATE DEACTIVATE	: /ATE	PIN PIN ADM ADM			
Bytes		Descripti	on	M/O	Length
1 to 2	Pseudonym Le	ength		М	2 bytes
3 to n+2	Pseudonym			М	n bytes

-Pseudonym Length

Contents:

- this byte gives the number of bytes of the following data item containing the Pseudonym value.

Coding:

- unsigned length coded on 2 bytes
- Pseudonym.

Contents:

-__Pseudonym to be used as the username part of the NAI

Coding:

- _As described for the user portion of the NAI in <u>TS 33.234 [41]</u>. Unused bytes shall be set to 'FF' and shall not be considered as a part of the value.

4.4.5.2 EF_{UPLMNWLAN} (User controlled PLMN selector for WLAN Access)

This EF contains the coding for preferred PLMNs to be used for WLAN PLMN Selection. This information is determined by the user and defines the preferred PLMNs of the user in priority order. The first PLMN entry record indicates the highest priority and the n^{th} PLMN entry record indicates the lowest. It shall be possible to store at least the number of PLMNs specified in TS 24.234 [40]. This file shall be present if service $n^{o}60$ is allocated available in EF_{UST}.

Identifier: '4F42'		Stru	ucture: transparent		Optional
SFI: '02'					
File size: 3	n (where n ≥ <u>10</u>	<u>)</u> 8)	Update	activity	r: low
Access Conditions:					
READ		PIN			
UPDATE		PIN			
DEACTIVA	TE	ADM			
ACTIVATE		ADM			
Bytes		Descripti		M/O	Length
1 to 3	1 st PLMN (hig	hest priority)		M	3 bytes
4 to 6	2 nd PLMN			М	3 bytes
:		:			
2822 to 2430	108 th PLMN			M	3 bytes
3125 to 2733	119 th PLMN			0	3 bytes
:					
(3n-2) to 3n	N th PLMN (lov	vest priority)		0	3 bytes

- PLMN

Contents:

- Mobile Country Code (MCC) followed by the Mobile Network Code (MNC).

Coding:

- according to TS 24.008 [9].

4.4.5.3 EF_{OPLMNWLAN} (Operator controlled PLMN selector for WLAN Access)

This EF contains the coding for operator preferred PLMNs to be used for WLAN PLMN Selection. This information is determined by the operator and defines the operator preferred PLMNs in priority order. The first PLMN entry record indicates the highest priority and the n^{th} PLMN entry record indicates the lowest. It shall be possible to store at least the number of PLMNs specified in TS 24.234 [40]. This file shall be present if service n^{o} 61 is allocated available in EF_{UST}.

Identifier: '4F43' Struc		ucture: transparent		Optional	
SFI: '03'					
File size: 3	n (where n ≥ <mark>8</mark>	<u>10</u>)	Update	activity	: low
Access Conditions:					
READ		PIN			
UPDATE		ADM			
DEACTIVA	TE	ADM			
ACTIVATE		ADM			
Bytes		Descripti		M/O	Length
1 to 3	1 st PLMN (hig	hest priority)		M	3 bytes
4 to 6	2 nd PLMN			M	3 bytes
:		:			
2822 to 2430	108 th PLMN			М	3 bytes
31 25 to 27 33	119 th PLMN			0	3 bytes
:		:			
(3n-2) to 3n	N th PLMN (lov	vest priority)		0	3 bytes

- PLMN

Contents:

- Mobile Country Code (MCC) followed by the Mobile Network Code (MNC). Coding:
- according to TS 24.008 [9].

4.4.5.4 EF_{UWSIDL} (User controlled WLAN Specific IDentifier List)

This file contains the user preferred list of WLAN specific identifier (WSID) for WLAN selection in priority order. The first record indicates the highest priority and the nth record indicates the lowest. This file is used for WLAN selection and shall store a list of at least the number of WSIDs specified as described in TS 24.234 [40]. This file shall be present if service n°62 is allocated available in EF_{UST}.

Identifi	er: '4F44'	Sti	ructure: linear fixed		Optional
	SFI: '04'				
Rece	ord size: X+1 byte	S	Update activity: low		/: low
Access Condit READ UPDAT DEACT ACTIVA	ΓΕ ΓΙVATE	PIN PIN ADM ADM			
Bytes		Descriptio	n	M/O	Length
1	Length of WSID			М	1 bytes
2 to X + 1	WSID -value		·	М	X bytes

-Length of WSID:

Contents:

- this byte gives the number of bytes of the following data item containing the WSID. value.

Coding:

- unsigned length coded on one byte

-WSID-Value:

Contents:

- WLAN specific identifier (WSID) as defined in 3GPP TS 24.234 [40].

Coding:

- binary. Unused bytes shall be set to 'FF' and not used either as a part of the value or for length calculation.

4.4.5.5 EF_{OWSIDL} (Operator controlled WLAN Specific IDentifierList)

This file contains the operator preferred list of WLAN specific identifier (WSID) for WLAN selection in priority order. The first record indicates the highest priority and the n^{th} record indicates the lowest. This file is used for WLAN selection and shall store a list of at least the number of WSIDs specified in TS 24.234 as described in [40]. This file shall be present if service $n^{\circ}63$ is "available" allocated in EF_{UST}.

Identifi	er: '4F45'	Stı	ructure: linear fixed		Optional
	SFI: '05'				
Reco	ord size: X + 1 byte	es	Update	activity	: low
Access Condit READ UPDAT DEACT ACTIVA	ΓΕ ΓΙVATE	PIN ADM ADM ADM			
Bytes		Descriptio	n	M/O	Length
1	Length of WSID	•		M	1 bytes
2 to X + 1	WSID-value			М	X bytes

-Length of WSID:

Contents:

- this byte gives the number of bytes of the following data item containing the WSID. value.

Coding:

- unsigned length coded on one byte

-WSID-Value:

Contents:

- WLAN specific identifier (WSID) as defined in 3GPP-TS 24.234 [40].

Coding:

- binary. Unused bytes shall be set to 'FF' and not used either as a part of the value or for length calculation.

4.4.5.6 EF_{WRI} (WLAN Reauthentication Identity)

This EF contains a list of parameters linked to a re-authentication identity to be used in fast re-authentication. Re-authentication identities and related parameters (Master Key and Counter Value) are provided as part of a previous authentication sequence. This file shall be present if service n°66 is "available" allocated in EF_{UST}.

Identifier	: '4F46'	Str	ucture: Transparent		Optional
	SFI: '06'				
File size:	n bytes (n≥J+K+	·L+6)	Update	e activity:	high
Access Conditio READ UPDATE DEACTIVA	: VATE	PIN PIN ADM ADM			
Bytes		Descripti	on	M/O	Length
1	Reauthenticati	on Identity T	ag '80'	М	1 byte
2	Re-authenticat	ion Identity L	_ength	М	1 byte
3-J+2	Re-authenticat	tion Identity \	/alue	М	J bytes
J+3	Master Key Ta	g '81'		М	1 byte
J+4	Master Key Le	ngth		М	1 byte
J+5-J+K+4	Master Key Va	lue		М	K bytes
J+K+5	Counter Tag '8	Counter Tag '82'			1 byte
J+K+6	Counter Lengt	Counter Length			1 byte
J+K+7- J+K+L+6	Counter Value			М	L bytes

- Reauthentication Identity

Contents:

- Re-authentication identity TLV to be used as the username part of the NAI.

Coding:

Tag '80'

Unsigned length on 1 byte

Value: As described for the user portion of the NAI in TS 33.234 [41]. Unused bytes shall be set to 'FF' and shall not be considered as a part of the value.

Master Key

Contents:

- Master Key TLV.

Coding:

Tag '81'

Unsigned length on 1 byte

Value: As described in TS 33.234 [41].

- Counter

Contents:

- Counter TLV

Coding:

Tag '82'

Unsigned length on 1 byte

Value: As described in TS 33.234 [41].

[...]

5.6 WLAN related procedures

5.6.1 WLAN Selection related Procedures

Requirement Prerequisite: service n°62 or n°63 <u>""</u>available <u>""</u>

The ME shall read the User and Operator controlled WSIDs from the corresponding list files (i.e. EF_{UWSIDL} and EF_{OWSIDL} to perform WLAN selection procedures as described in $\underline{TS\ 24.234\ [40]}$.

The user may change the User controlled WSIDs.

5.6.2 WLAN PLMN Selection related procedures

Requirement Prerequisite: service n°60 or n°61 "available"

The ME shall read the User controlled PLMN selector and/or Operator controlled PLMN selector in EF_{PLMNWLAN} and EF_{OPLMNWLAN} respectively for WLAN PLMN Selection procedures as described in TS 24.234 [40].

The user may change the User controlled PLMN selector for WLAN.

5.6.3 WLAN access authentication related procedures

Requirement Prerequisite: service n°59 "available"

When the ME tries a full authentication, it shall inspect if a valid <u>p</u>Pseudonym is available in EF_{Pseudo.} and use it as the user name portion of the NAI for WLAN access authentication following the procedures described in <u>TS 24.234 [40]</u>.

The ME shall manage pseudonyms as defined in TS 24.234 [40].

5.6.4 WLAN access re-authentication related procedures

Requirement: service n°66 "available"

When the ME tries a fast re-authentication, it shall inspect if a valid reauthentication identity is available in EF_{WRI} and use it as the user name portion of the NAI for WLAN access re-authentication following the procedures described in TS 24.234 [40].

The ME shall manage re-authentiction identities, Master Key and counter values as described in TS 24.234 [40].

3GPP TSG CT WG6 Meeting #35 Cancun, Mexico, 26th – 29th April 2005

Tdoc # C6-050374

Revised C6-050258

,							00.5
	(CHANGE	REQU	EST			CR-Form-v7.1
*	31.102 CR	280	жrev	- # C	Current vers	7.0.0	¥
For <u>HELP</u> on u	ısing this form, see	bottom of this	page or loc	ok at the p	oop-up text	over the ♯ sy	mbols.
Proposed change	affects: UICC a	иррsЖ <mark>Х</mark>	ME <mark>X</mark> R	adio Acc	ess Netwoi	rk Core N	etwork
Title: #	Modifications re	garding WLAN					
Source: #	CT6	-					
Source.	CIO						
Work item code: ₩	TEI-7				Date: ૠ	28/04/2005	
Category: ≆	B (addition of	ds to a correction feature), modification of foodification) ons of the above	n in an earliei eature)	r release)	Release: # Use <u>one</u> of Ph2 R96 R97 R98 R99 Rel-4 Rel-5	Rel-7 the following rel (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5))))
	be found in oct 1	<u>111 2 1.300</u> .			Rel-6 Rel-7	(Release 6) (Release 7)	
Reason for change	SeveralThe mir	reviations regareferences and	d description of PLMN 6	ns of the ventries in	WLAN files WLAN files	s should be -	
	15 24.2	34 – 10 entries	s, not as spe	citied in	15 31.102 -	- 8 entries.	
Summary of chang	 Added t 	ations regardin he complete re I minimum num	ferences an	d comple		•	AN files.
Consequences if not approved:	策 The descrip the requiren	tions for WLAN ents specified			31.102 is	inconsistence	regarding
Clauses affected:	≋ 3.3; 4.4.5; 4	.5.1.1; 4.4.5.2;	4.4.5.3; 4.4	.5.4; 4.4.	5.5; 5.6.1; 5	5.6.2; 5.6.3.	
Other specs Affected:	X Test	r core specifica specifications Specifications		B			

How to create CRs using this form:

Other comments:

 \mathfrak{H}

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.

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

3GPP 3rd Generation Partnership Project

AC Access Condition ACL APN Control List

ADF Application Dedicated File AID Application IDentifier AK Anonymity key

ALW ALWays

AMF Authentication Management Field

AoC Advice of Charge APN Access Point Name

ASN.1 Abstract Syntax Notation One

AuC Authentication Centre
AUTN Authentication token
BDN Barred Dialling Number
BER-TLV Basic Encoding Rule - TLV

B-TID Bootstrapping Transaction IDentifier CCP Capability Configuration Parameter

CK Cipher key

CLI Calling Line Identifier
CNL Co-operative Network List
CPBCCH COMPACT Packet BCCH

CS Circuit switched

DCK Depersonalisation Control Keys

DF Dedicated File
DO Data Object
EF Elementary File
FCP File Control Parameters
FFS For Further Study

GSM Global System for Mobile communications

HE Home Environment
ICC Integrated Circuit Card
ICI Incoming Call Information
ICT Incoming Call Timer

ID IDentifier

IEI Information Element Identifier

IK Integrity key

IMSI International Mobile Subscriber Identity

K USIM Individual key

K_C Cryptographic key used by the cipher A5

KSI Key Set Identifier
LI Language Indication
LSB Least Significant Bit
MAC Message authentication code

MAC-A MAC used for authentication and key agreement

MAC-I MAC used for data integrity of signalling messages

MBMS Multimedia Broadcast/Multicast Service

MCC Mobile Country Code

MExE Mobile Execution Environment

MF Master File

MGV-F MTK Generation and Validation Function

MIKEY Multimedia Internet KEYing

MM Multimedia Message
MMI Man Machine Interface
MMS Multimedia Messaging Service

MNC Mobile Network Code

MODE Indication packet switched/circuit switched mode

MSB Most Significant Bit

MSK MBMS Service Key MBMS Traffic Key MTK MBMS User Key MUK **NEV NEVer** NPI Numbering Plan Identifier OCI **Outgoing Call Information** OCT Outgoing Call Timer **PBID** Phonebook Identifier PIN Personal Identification Number PL Preferred Languages PS Packet switched PS_DO PIN Status Data Object **RAND** Random challenge Random challenge stored in the USIM $RAND_{MS}$ User response RES Reserved for Future Use **RFU RST** Reset **SDN** Service dialling number Security Environment SE Sequence number for MGV-F **SEQs** SEQp Sequence number for MGV-F stored in the USIM SFI Short EF Identifier **SGSN** Serving GPRS Support Node Serving Network SN SQN Sequence number Signed RESponse calculated by a USIM SRES SWStatus Word TLV Tag Length Value **USAT USIM Application Toolkit** Universal Subscriber Identity Module **USIM VLR** Visitor Location Register **WLAN** Wireless Local Area Network

[...]

WSID

XRES

4.4.5 Contents of files at the DF WLAN level

WLAN Specific Identifier

Expected user RESponse

This clause describes the additional files that are used for WLAN purposes.

 DF_{WLAN} shall be present at the ADF_{USIM} level if either of the services n°59, n°60, n°61, n°62, n°63 or n°66 are "available" allocated in the corresponding EF_{UST} (USIM Service Table).

4.4.5.1 EF_{Pseudo} (Pseudonym)

This EF contains a temporary user identifier (pseudonym) for subscriber identification. Pseudonyms may be provided as part of a previous authentication sequence. Pseudonyms are used as defined in <u>TS 24.234</u> [40]. This file shall be present if service n°59 is <u>"available" allocated</u> in EF_{UST}.

Identifier	: '4F41'	Str	ucture: Transparent		Optional
	SFI : '01'				
File size	e: Y bytes (Y≥n+	·2)	Update	activity:	high
Access Conditio READ UPDATE DEACTIVATE	: VATE	PIN PIN ADM ADM			
Bytes		Descripti	on	M/O	Length
1 to 2	Pseudonym Le	ength		M	2 bytes
3 to n+2	Pseudonym			M	n bytes

-Pseudonym Length

Contents:

- this byte gives the number of bytes of the following data item containing the Pseudonym value.

Coding:

- unsigned length coded on 2 bytes
- Pseudonym.

Contents:

-Pseudonym to be used as the username part of the NAI

Coding:

- As described for the user portion of the NAI in <u>in TS 33.234 [41]</u>. Unused bytes shall be set to 'FF' and shall not be considered as a part of the value.

4.4.5.2 EF_{UPLMNWLAN} (User controlled PLMN selector for WLAN Access)

This EF contains the coding for preferred PLMNs to be used for WLAN PLMN Selection. This information is determined by the user and defines the preferred PLMNs of the user in priority order. The first PLMN entry record indicates the highest priority and the n^{th} PLMN entry record indicates the lowest. It shall be possible to store at least the number of PLMNs specified in TS 24.234 [40]. This file shall be present if service $n^{\circ}60$ is allocated available in EF_{UST}.

Identifier: '4F42'		Str	ucture: transparent		Optional
SFI: '02'					
File size: 3	n (where n ≥ <u>1</u>	<u>0</u> 8)	Update	activity	: low
Access Conditions	:				
READ		PIN			
UPDATE		PIN			
DEACTIVA	TE	ADM			
ACTIVATE		ADM			
Bytes		Descripti	ion	M/O	Length
1 to 3	1 st PLMN (hig	hest priority)		M	3 bytes
4 to 6	2 nd PLMN			M	3 bytes
:		:			
28 22 to 2430	108 th PLMN			M	3 bytes
3125 to 2733	119 th PLMN			0	3 bytes
:		:	•		
(3n-2) to 3n	N th PLMN (lov	vest priority)		0	3 bytes

- PLMN

Contents:

- Mobile Country Code (MCC) followed by the Mobile Network Code (MNC).

Coding:

according to TS 24.008 [9].

4.4.5.3 EF_{OPLMNWLAN} (Operator controlled PLMN selector for WLAN Access)

This EF contains the coding for operator preferred PLMNs to be used for WLAN PLMN Selection. This information is determined by the operator and defines the operator preferred PLMNs in priority order. The first PLMN entry record indicates the highest priority and the n^{th} PLMN entry record indicates the lowest. It shall be possible to store at least the number of PLMNs specified in TS 24.234 [40]. This file shall be present if service n° 61 is allocated available in EF_{UST}.

Identifier: '4	fier: '4F43' Stru		ucture: transparent		Optional
8	SFI: '03'				
File size: 3	n (where n ≥ <u>10</u>	<mark>0</mark> 8)	Update	activity	: low
Access Conditions:					
READ		PIN			
UPDATE		ADM			
DEACTIVA	TE	ADM			
ACTIVATE		ADM			
				•	
Bytes		Descripti		M/O	Length
1 to 3	1 st PLMN (hig	hest priority)		М	3 bytes
4 to 6	2 nd PLMN			М	3 bytes
:		:			
2822 to 2430	108 th PLMN			М	3 bytes
31 25 to 27 33	119 th PLMN			0	3 bytes
:		:			
(3n-2) to 3n	N th PLMN (lov	vest priority)		0	3 bytes

- PLMN

Contents:

- Mobile Country Code (MCC) followed by the Mobile Network Code (MNC).

Coding:

according to TS 24.008 [9].

4.4.5.4 EF_{UWSIDI} (User controlled WLAN Specific IDentifier List)

This file contains the user preferred list of WLAN specific identifier (WSID) for WLAN selection in priority order. The first record indicates the highest priority and the nth record indicates the lowest. This file is used for WLAN selection and shall store a list of at least the number of WSIDs specified as described in TS 24.234 [40]. This file shall be present if service n°62 is allocated available in EF_{UST.}

Identifi	er: '4F44'	Stı	ructure: linear fixed		Optional
	SFI: '04'				
Rece	ord size: X+1 byte	S	Update	e activity	: low
Access Condit READ UPDAT DEACT ACTIVA	ΓΕ ΓΙVATE	PIN PIN ADM ADM			
Bytes		Descriptio	n	M/O	Length
1	Length of WSID	•		M	1 bytes
2 to X + 1	WSID -value			M	X bytes

Contents:

- this byte gives the number of bytes of the following data item containing the WSID. value.

Coding:

- unsigned length coded on one byte

-WSID: Value

Contents:

- WLAN specific identifier (WSID) as defined in 3GPP TS 24.234 [40].

Coding:

- binary. Unused bytes shall be set to 'FF' and not used either as a part of the value or for length calculation.

4.4.5.5 EF_{OWSIDL} (Operator controlled WLAN Specific IDentifierList)

This file contains the operator preferred list of WLAN specific identifier (WSID) for WLAN selection in priority order. The first record indicates the highest priority and the n^{th} record indicates the lowest. This file is used for WLAN selection and shall store a list of at least the number of WSIDs specified in TS 24.234 as described in [40]. This file shall be present if service $n^{\circ}63$ is "available" allocated in EF_{UST} .

Identifi	er: '4F45'	Sti	ructure: linear fixed		Optional
	SFI: '05'				
Reco	ord size: X + 1 byte	es	Update	activity	: low
Access Condit READ UPDAT DEACTACTIVE	ΓΕ ΓΙVATE	PIN ADM ADM ADM			
Bytes		Descriptio	n	M/O	Length
1	Length of WSID			M	1 bytes
2 to X + 1	WSID-value			M	X bytes

-Length of WSID:

Contents:

- this byte gives the number of bytes of the following data item containing the WSID. value.

Coding:

- unsigned length coded on one byte

-WSID: Value

Contents:

- WLAN specific identifier (WSID) as defined in 3GPP TS 24.234 [40].

Coding:

- binary. Unused bytes shall be set to 'FF' and not used either as a part of the value or for length calculation.

4.4.5.6 EF_{WRI} (WLAN Reauthentication Identity)

This EF contains a list of parameters linked to a re-authentication identity to be used in fast re-authentication. Reauthentication identities and related parameters (Master Key and Counter Value) are provided as part of a previous authentication sequence. This file shall be present if service $n^{\circ}66$ is "available" allocated in EF_{UST}.

Identifier	: '4F46'	Str	ucture: Transparent		Optional
	SFI: '06'				
File size:	n bytes (n≥J+K+	·L+6)	Update	activity:	high
Access Conditio READ UPDATE DEACTIVA	: VATE	PIN PIN ADM ADM			
Bytes		Descripti	on	M/O	Length
1	Reauthenticati	on Identity T	ag '80'	М	1 byte
2	Re-authenticat	tion Identity L	-ength	М	1 byte
3-J+2	Re-authenticat	tion Identity \	/alue	М	J bytes
J+3	Master Key Ta	g '81'		M	1 byte
J+4	Master Key Le	ngth		М	1 byte
J+5-J+K+4	Master Key Va	lue		М	K bytes
J+K+5	Counter Tag '8	Counter Tag '82'			1 byte
J+K+6	Counter Length			М	1 byte
J+K+7-	Counter Value			М	L bytes
J+K+L+6					

- Reauthentication Identity

Contents:

- Re-authentication identity TLV to be used as the username part of the NAI.

Coding:

Tag '80'

Unsigned length on 1 byte

Value: As described for the user portion of the NAI in TS 33.234 [41]. Unused bytes shall be set to 'FF' and shall not be considered as a part of the value.

Master Key

Contents:

- Master Key TLV.

Coding:

Tag '81'

Unsigned length on 1 byte

Value: As described in TS 33.234 [41].

Counter

Contents:

- Counter TLV

Coding:

Tag '82'

Unsigned length on 1 byte

Value: As described in TS 33.234 [41].

[...]

5.6 WLAN related procedures

5.6.1 WLAN Selection related Procedures

Requirement Prerequisite: service n°62 or n°63 <u>"</u>available<u>"</u>

The ME shall read the User and Operator controlled WSIDs from the corresponding list files (i.e. EF_{UWSIDL} and EF_{OWSIDL} to perform WLAN selection procedures as described in TS 24.234 [40].

The user may change the User controlled WSIDs.

5.6.2 WLAN PLMN Selection related procedures

Requirement Prerequisite: service n°60 or n°61 "available"

The ME shall read the User controlled PLMN selector and/or Operator controlled PLMN selector in $EF_{PLMNWLAN}$ and $EF_{OPLMNWLAN}$ respectively for WLAN PLMN Selection procedures as described in \underline{TS} 24.234 [40].

The user may change the User controlled PLMN selector for WLAN.

5.6.3 WLAN access authentication related procedures

RequirementPrerequisite: service n°59 "available"

When the ME tries a full authentication, it shall inspect if a valid Pseudonym is available in EF_{Pseudo.} and use it as the user name portion of the NAI for WLAN access authentication following the procedures described in TS 24.234 [40].

The ME shall manage pseudonyms as defined in TS 24.234 [40].

5.6.4 WLAN access re-authentication related procedures

Requirement: service n°66 "available"

When the ME tries a fast re-authentication, it shall inspect if a valid reauthentication identity is available in EF_{WRI} and use it as the user name portion of the NAI for WLAN access re-authentication following the procedures described in TS 24.234 [40].

The ME shall manage re-authentiction identities, Master Key and counter values as described in TS 24.234 [40].

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Consequences if not approved:	\mathfrak{H}	Disci	repanc	ies betwe	een TS	33.246	3 rel-6	and	TS 31.102	2 rel-6.		
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Other comments:

How to create CRs using this form:

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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 \(\mathcal{x} \) 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.

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

3GPP 3rd Generation Partnership Project

AC Access Condition ACL APN Control List

ADF Application Dedicated File AID Application IDentifier AK Anonymity key

ALW ALWays

AMF Authentication Management Field

AoC Advice of Charge APN Access Point Name

ASN.1 Abstract Syntax Notation One

AuC Authentication Centre
AUTN Authentication token
BDN Barred Dialling Number
BER-TLV Basic Encoding Rule - TLV

B-TID Bootstrapping Transaction IDentifier CCP Capability Configuration Parameter

CK Cipher key

CLI Calling Line Identifier
CNL Co-operative Network List
CPBCCH COMPACT Packet BCCH

CS Circuit switched

DCK Depersonalisation Control Keys

DF Dedicated File
DO Data Object
EF Elementary File
FCP File Control Parameters
FFS For Further Study

GSM Global System for Mobile communications

HE Home Environment
ICC Integrated Circuit Card
ICI Incoming Call Information
ICT Incoming Call Timer

ID IDentifier

IEI Information Element Identifier

IK Integrity key

IMSI International Mobile Subscriber Identity

K USIM Individual key

K_C Cryptographic key used by the cipher A5

KSI Key Set Identifier
LI Language Indication
LSB Least Significant Bit
MAC Message authentication code

MAC-A MAC used for authentication and key agreement MAC-I MAC used for data integrity of signalling messages

MBMS Multimedia Broadcast/Multicast Service

MCC Mobile Country Code

MExE Mobile Execution Environment

MF Master File

MGV-F MTK Generation and Validation Function

MIKEY Multimedia Internet KEYing

MM Multimedia Message
MMI Man Machine Interface
MMS Multimedia Messaging Service

MNC Mobile Network Code

MODE Indication packet switched/circuit switched mode

MSB Most Significant Bit
MSK MBMS Service Key
MTK MBMS Traffic Key
MUK MBMS User Key

NEV NEVer

NPI Numbering Plan Identifier
OCI Outgoing Call Information
OCT Outgoing Call Timer
PBID Phonebook Identifier

PIN Personal Identification Number

PL Preferred Languages
PS Packet switched
PS_DO PIN Status Data Object
RAND Random challenge

RAND_{MS} Random challenge stored in the USIM

RES User response

RFU Reserved for Future Use

RST Reset

SDN Service dialling number SE Security Environment

SEQs Sequence number for MGV F

SEQp Sequence number for MGV-F stored in the USIM

SFI Short EF Identifier

SGSN Serving GPRS Support Node

SN Serving Network SQN Sequence number

SRES Signed RESponse calculated by a USIM

SW Status Word
TLV Tag Length Value

USAT USIM Application Toolkit

USIM Universal Subscriber Identity Module

VLR Visitor Location Register XRES Expected user RESponse

7.1.1 Command description

The function can be used in several different contexts:

- a 3G security context, when 3G authentication vectors (RAND, XRES, CK, IK, AUTN) are available (i.e. the UE is located in the UTRAN, or in a GSM radio access network which is connected to a 3G or 3G capable VLR/SGSN), or
- a GSM security context, when GSM authentication data are available only (i.e. the UE is located in the GSM radio access network which is connected to a non-3G capable VLR/SGSN)
- a VGCS/VBS security context, when VGCS/VBS authentication data is available
- a GBA U security context, when a GBA bootstrapping procedure is requested
- a MBMS security context, when a MBMS security procedure is requested

The function is used in GSM or 3G security context during the procedure for authenticating the USIM to its HE and vice versa. In addition, a cipher key and an integrity key are calculated. For the execution of the command the USIM uses the subscriber authentication key K, which is stored in the USIM.

The function is used in VGCS/VBS security context during the procedure for retrieving the VGCS/VBS Short Term Key (VSTK) used by the terminal in establishing VGCS/VBS calls.

The function is used in GBA security context in two different modes:

- a) Bootstrapping Mode: during the procedure for <u>muthual mutual</u> authenticating of the USIM and the Bootstrapping Server Function (BSF) and for deriving bootstrapped key material from the AKA run.
- b) NAF Derivation Mode: during the procedure for deriving Network Application Function (NAF) specific keys from previous bootstrapped key material.

The function is used in MBMS security context in twothree different modes:

- a) MSK Update Mode: during the procedure for updating an MBMS Service Key (MSK).
- b) MSK Verification Mode: during the procedure for computing the MSK Verification Message previously requested by an MSK update message.
- e)—MTK Generation Mode: during the procedure for retrieving the MBMS Traffic Key (MTK) used by the terminal to decrypt MBMS data.

The function is related to a particular USIM and shall not be executable unless the USIM application has been selected and activated, and the current directory is the USIM ADF or any subdirectory under this ADF and a successful PIN verification procedure has been performed (see clause 5).

7.1.1.6 MBMS security context (MSK Update Mode)

The USIM receives the MIKEY packet containing an MSK update message. First, the USIM uses the MUK ID to identify the Ks_int_NAF corresponding with a previous bootstrapping procedure.

The USIM shall check if a new NAF derivation procedure involving the received NAF_ID in the MIKEY message has been performed. In such a case, the USIM shall store the last bootstrapped Ks_int_NAF as the <u>current-last generated</u> MUK and update EF_{MUK} as follows:

- If a record with the received NAF_ID (included in the MUK ID: see TS 33.246 [43]) value is already present, then the MUK ID is stored in the corresponding field of this record, and the associated Time Stamp Counter (TS) field is reset. Additionally, the USIM internally stores the last successfully used MUK (i.e. MUK that was used during the last successful MSK update procedure), along with its MUK ID for further use (e.g. to detect Key freshness failure).
- If a record with the received NAF_ ID does not exist, the USIM uses an empty record to include the MUK ID, and reset the associated TS field.

If the received MUK ID does not correspond to the current last generated MUK (i.e. last bootstrapped MUK) then the USIM proceeds as follows:

- If the received MUK ID corresponds to the last successfully used MUK and if the received MIKEY message corresponds to a push solicited pull procedure then the USIM uses this MUK to verify the integrity of the message. If the verification is unsuccessful, the USIM abandons the function and returns the status word '9862' (Authentication error, incorrect MAC). If the verification is successful, the USIM abandons the function and returns the status word '9865' (the BM-SC shall be notified to retrieve the latest Ks_int_NAF: see TS 33.246 [43]). In this case, the USIM shall not return a MIKEY verification message.
- Otherwise, this is considered as a bootstrapping failure (incorrect MUK) and the USIM abandons the function. The status word '6A88' (Referenced data not found) is returned.

Otherwise, if the received MUK ID corresponds to the <u>current-last generated MUK</u>, the USIM uses the MUK value for MSK validation and derivation functions as described in TS 33.246 [43]. If the validation is unsuccessful, the status word '9862' (Authentication error, incorrect MAC) is returned and the USIM abandons the function.

After a successful MSK Update procedure the USIM stores the received MSK and updates EF_{MSK} as follows:

- If a record with the received Key Domain ID and Key Group part (i.e. Key Group part of the MSK ID) already exists, the 2nd-MSK ID and the associated TS shall be replaced by the 1st MSK ID and the associated TS. Then the new MSK ID is stored as the 1st MSK ID and the associated TS is reset.
- If a record with the received Key Domain ID and Key Group part does not exist, the USIM uses an empty record
 to include those values. The received MSK ID is stored as the 1st MSK ID and the associated TS is reset. The 2nd
 MSK ID and the associated TS are set to 'FF FF'.

NOTE: The policy of replacing Key Domain records when no more empty records are available in EF_{MSK} is HE specific. (e.g. delete Groups from visited Key Domains first)

Then, the USIM stores the Time Stamp field (retrieved from the MIKEY message) in its corresponding field under EF_{MUK} .

The USIM stores internally the last <u>successfully</u> used MUK along with its MUK ID for further use. This MUK may be used beyond its GBA validity (i.e. after the derivation of a new Ks_int_NAF resulting from a new bootstrap procedure) to verify the integrity of the <u>firsta</u> MIKEY message in order to detect a synchronization failure-of a <u>push solicited pull procedure</u>. This may occur if the last derived Ks_int_NAF did not reach the BM-SC.

NOTE: The MSK is not necessarily updated in the message, since a MSK transport message can be sent e.g. to update the Key Validity data.

<u>Finally, if the V-bit in the HDR field of the received MIKEY message is set then the USIM shall produce a MSK Verification Message as described in TS 33.246 [43]. In this case the command response is the MIKEY verification message.</u>

Input:

- MIKEY message

Output:

- MIKEY message

or

- None

7.1.1.7 MBMS security context (MSK Verification Mode) Void

USIM operations in MBMS security context are supported if service n°69 is "available".

The USIM receives the NAF_ID and MIKEY packet containing an MIKEY verification message, with an empty MAC field.

First, the USIM tests if the given MUK ID corresponds to a stored MUK ID in EF_{MUK} and if the Time Stamp field in the given MKEY message corresponds with the stored Time Stamp Counter (TS) in EF_{MUK}.

If any of these verifications fails, this is considered as a Verification failure and the USIM abandons the function. The status word '6985' (Conditions of use not satisfied) is returned.

Otherwise, the USIM computes the MAC value as defined in TS 33.246 [43] and sends back the complete MIKEY verification message.

Input:

- NAF_ID, MIKEY message

Output

— MIKEY message

7.1.1.8 MBMS security context (MTK Generation Mode)

USIM operations in MBMS security context are supported if service n°69 is "available".

The USIM receives the MIKEY message containing an MBMS MTK and a Salt key (if Salt key is available). First, the USIM retrieves the MSK with the Key Domain ID and the MSK ID given by the Extension payload of the MIKEY message (as described in TS 33.246 [43]).

If the needed MSK does not exist, this is considered as a MSK failure and the USIM abandons the function. The status word '6A88' (Referenced data not found) is returned.

If the key validity data of the MSK indicates an invalidated MSK (i.e. SEQI is greater than SEQu) then the USIM returns the status word '6985' (Conditions of use not satisfied) and abandons the function. SEQI and SEQu are defined in TS 33.246 [43].

Otherwise, the USIM performs the MBMS Generation and Validation Function (MGV-F) as described in TS 33.246 [43] using MSK.

If the USIM detects that the given MTK ID is invalid, this is considered as a SEQp freshness failure and the USIM abandons the function. The status word '9865' (Key freshness failure) is returned.

If the integrity validation of the MIKEY message is unsuccessful, the USIM abandons the function and returns the status word '9862' (Authentication error, incorrect MAC).

After successful MGV_F procedure the USIM stores the Time Stamp field (retrieved from the MIKEY message) as the Time Stamp Counter (TS) associated with the involved MSK under EF_{MSK}

The USIM also stores MTK ID (retrieved from the MIKEY message) as the SEQls associated with MSK.

Then, the USIM returns MTK and Salt key (if Salt key is available).

Input:

- MIKEY message

Output:

- MTK and Salt (if available)

7.1.2.5 MBMS security context (All Modes)

Byte(s)	Description	Length			
1	MBMS Security Context Mode	1			
2	Length of MIKEY message (L1)	1			
3 to (L1+2)	MIKEY message	L1			
(L1+3)	Length of NAF_ID (L2) (see note1)	4			
(L1+4) to	NAF_ID (see note1)	L2			
(L1+L2+3)					
NOTE 1: Parameter present if and only if in MSK Verification Mode.					

Parameter MBMS Security Context Mode specifies the MBMS mode in which MBMS security procedure is performed as follows:

Coding of MBMS Security Context Mode

Coding	Meaning					
'01'	MSK Update Mode					
'02	MSK Verification Mode					
'02' 3"	MTK Generation Mode					

Response parameters/data, MBMS security context (MSK Verification-Update Mode), command successful:

Byte(s)	Description	Length			
1	"Successful MBMS operation" tag = 'DB' (see note 1)	1			
2	Length of MIKEY (L) (see note 1)	1			
3 to (L+2)	MIKEY message (see note 1)	L			
NOTE 1: Parameter present if a MIKEY verification message is returned.					

Response parameters/data, MBMS security context (MTK Generation Mode), command successful:

Byte(s)	Description	Length
1	"Successful MBMS operation" tag = 'DB'	1
2	Length of MTK and Salt (if Salt key is available) (L)	1
3 to (L+2)	MTK Salt (if available)	L

The coding of parameters is described in TS 33.246 [43].

3GPP 1SG-C16 #35	00 4:'1 0005		Co-050376
Cancun, Mexico, 25-2	29 April 2005		CR-Form-v7.1
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Proposed change affec	_		ccess Network Core Network
Title:	nment of MBMS procedures	with TS 33.246	
Source: # CT	6		
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Category:			Release: # Rel-7
Deta	one of the following categories. F (correction) A (corresponds to a correction B (addition of feature), C (functional modification of feature) D (editorial modification) ailed explanations of the above ound in 3GPP TR 21.900.	n in an earlier release eature)	Use <u>one</u> of the following releases: 2 (GSM Phase 2) 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: #	MBMS functionality specification applied to TS 33.246: The two procedure into one procedure into one procedure old (still valid) MU handle the MIKEY pull message. The terminology of TS 33.246 i.e. "last MUK" and "current SEQs has been recommended."	es 'MSK Update' a e. when receiving a n K-ID has been chat' push message in used in section 7.1. It used MUK" is replaced an additional to SEQI (I blidated MSK has be	ed several CRs that impact the The following changes has been and 'MSK verification' are combined formal MIKEY push message with an anged. In fact, the UE shall now a similar way as the push solicited with placed by "last successfully used to by "last generated MUK". I seen introduced. An MSK is a similar way as the push solicited with placed by "last generated MUK".
Summary of change: #	The changes described at	oove are reflected i	in TS 31.102
Consequences if # not approved:	Discrepancies between TS	S 33.246 rel-6 and	TS 31.102 rel-6.
Clauses affected: 第	3.3, 7.1.1, 7.1.1.6, 7.1.1.7	, 7.1.1.8, 7.1.2.5	
Other specs	YN	itions #	

Other comments:

How to create CRs using this form:

 \mathfrak{R}

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 \(\mathcal{x} \) 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.

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

3GPP 3rd Generation Partnership Project

AC Access Condition ACL APN Control List

ADF Application Dedicated File AID Application IDentifier AK Anonymity key

ALW ALWays

AMF Authentication Management Field

AoC Advice of Charge APN Access Point Name

ASN.1 Abstract Syntax Notation One

AuC Authentication Centre
AUTN Authentication token
BDN Barred Dialling Number
BER-TLV Basic Encoding Rule - TLV

B-TID Bootstrapping Transaction IDentifier CCP Capability Configuration Parameter

CK Cipher key

CLI Calling Line Identifier
CNL Co-operative Network List
CPBCCH COMPACT Packet BCCH

CS Circuit switched

DCK Depersonalisation Control Keys

DF Dedicated File
DO Data Object
EF Elementary File
FCP File Control Parameters
FFS For Further Study

GSM Global System for Mobile communications

HE Home Environment
ICC Integrated Circuit Card
ICI Incoming Call Information
ICT Incoming Call Timer

ID IDentifier

IEI Information Element Identifier

IK Integrity key

IMSI International Mobile Subscriber Identity

K USIM Individual key

K_C Cryptographic key used by the cipher A5

KSI Key Set Identifier
LI Language Indication
LSB Least Significant Bit
MAC Message authentication code

MAC-A MAC used for authentication and key agreement MAC-I MAC used for data integrity of signalling messages

MBMS Multimedia Broadcast/Multicast Service

MCC Mobile Country Code

MExE Mobile Execution Environment

MF Master File

MGV-F MTK Generation and Validation Function

MIKEY Multimedia Internet KEYing

MM Multimedia Message
MMI Man Machine Interface

MMS Multimedia Messaging Service

MNC Mobile Network Code

MODE Indication packet switched/circuit switched mode

MSB Most Significant Bit
MSK MBMS Service Key
MTK MBMS Traffic Key
MUK MBMS User Key

NEV NEVer

NPI Numbering Plan Identifier
OCI Outgoing Call Information
OCT Outgoing Call Timer
PBID Phonebook Identifier

PIN Personal Identification Number

PL Preferred Languages
PS Packet switched
PS_DO PIN Status Data Object
RAND Random challenge

RAND_{MS} Random challenge stored in the USIM

RES User response

RFU Reserved for Future Use

RST Reset

SDN Service dialling number SE Security Environment

SEQs Sequence number for MGV F

SEQp Sequence number for MGV-F stored in the USIM

SFI Short EF Identifier

SGSN Serving GPRS Support Node

SN Serving Network SQN Sequence number

SRES Signed RESponse calculated by a USIM

SW Status Word
TLV Tag Length Value

USAT USIM Application Toolkit

USIM Universal Subscriber Identity Module

VLR Visitor Location Register XRES Expected user RESponse

7.1.1 Command description

The function can be used in several different contexts:

- a 3G security context, when 3G authentication vectors (RAND, XRES, CK, IK, AUTN) are available (i.e. the UE is located in the UTRAN, or in a GSM radio access network which is connected to a 3G or 3G capable VLR/SGSN), or
- a GSM security context, when GSM authentication data are available only (i.e. the UE is located in the GSM radio access network which is connected to a non-3G capable VLR/SGSN)
- a VGCS/VBS security context, when VGCS/VBS authentication data is available
- a GBA_U security context, when a GBA bootstrapping procedure is requested
- a MBMS security context, when a MBMS security procedure is requested

The function is used in GSM or 3G security context during the procedure for authenticating the USIM to its HE and vice versa. In addition, a cipher key and an integrity key are calculated. For the execution of the command the USIM uses the subscriber authentication key K, which is stored in the USIM.

The function is used in VGCS/VBS security context during the procedure for retrieving the VGCS/VBS Short Term Key (VSTK) used by the terminal in establishing VGCS/VBS calls.

The function is used in GBA security context in two different modes:

- a) Bootstrapping Mode: during the procedure for <u>muthual mutual</u> authenticating of the USIM and the Bootstrapping Server Function (BSF) and for deriving bootstrapped key material from the AKA run.
- b) NAF Derivation Mode: during the procedure for deriving Network Application Function (NAF) specific keys from previous bootstrapped key material.

The function is used in MBMS security context in twothree different modes:

- a) MSK Update Mode: during the procedure for updating an MBMS Service Key (MSK).
- b) MSK Verification Mode: during the procedure for computing the MSK Verification Message previously requested by an MSK update message.
- e)—MTK Generation Mode: during the procedure for retrieving the MBMS Traffic Key (MTK) used by the terminal to decrypt MBMS data.

The function is related to a particular USIM and shall not be executable unless the USIM application has been selected and activated, and the current directory is the USIM ADF or any subdirectory under this ADF and a successful PIN verification procedure has been performed (see clause 5).

7.1.1.6 MBMS security context (MSK Update Mode)

The USIM receives the MIKEY packet containing an MSK update message. First, the USIM uses the MUK ID to identify the Ks_int_NAF corresponding with a previous bootstrapping procedure.

The USIM shall check if a new NAF derivation procedure involving the received NAF_ID in the MIKEY message has been performed. In such a case, the USIM shall store the last bootstrapped Ks_int_NAF as the <u>current-last generated</u> MUK and update EF_{MUK} as follows:

- If a record with the received NAF_ID (included in the MUK ID: see TS 33.246 [43]) value is already present, then the MUK ID is stored in the corresponding field of this record, and the associated Time Stamp Counter (TS) field is reset. Additionally, the USIM internally stores the last successfully used MUK (i.e. MUK that was used during the last successful MSK update procedure), along with its MUK ID for further use (e.g. to detect Key freshness failure).
- If a record with the received NAF_ ID does not exist, the USIM uses an empty record to include the MUK ID, and reset the associated TS field.

If the received MUK ID does not correspond to the current last generated MUK (i.e. last bootstrapped MUK) then the USIM proceeds as follows:

- If the received MUK ID corresponds to the last successfully used MUK and if the received MIKEY message corresponds to a push solicited pull procedure—then the USIM uses this MUK to verify the integrity of the message. If the verification is unsuccessful, the USIM abandons the function and returns the status word '9862' (Authentication error, incorrect MAC). If the verification is successful, the USIM abandons the function and returns the status word '9865' (the BM-SC shall be notified to retrieve the latest Ks_int_NAF: see TS 33.246 [43]). In this case, the USIM shall not return a MIKEY verification message.
- Otherwise, this is considered as a bootstrapping failure (incorrect MUK) and the USIM abandons the function. The status word '6A88' (Referenced data not found) is returned.

Otherwise, if the received MUK ID corresponds to the <u>current last generated MUK</u>, the USIM uses the MUK value for MSK validation and derivation functions as described in TS 33.246 [43]. If the validation is unsuccessful, the status word '9862' (Authentication error, incorrect MAC) is returned and the USIM abandons the function.

After a successful MSK Update procedure the USIM stores the received MSK and updates EF_{MSK} as follows:

- If a record with the received Key Domain ID and Key Group part (i.e. Key Group part of the MSK ID) already exists, the 2nd-MSK ID and the associated TS shall be replaced by the 1st MSK ID and the associated TS. Then the new MSK ID is stored as the 1st MSK ID and the associated TS is reset.
- If a record with the received Key Domain ID and Key Group part does not exist, the USIM uses an empty record to include those values. The received MSK ID is stored as the 1st MSK ID and the associated TS is reset. The 2nd MSK ID and the associated TS are set to 'FF FF'.

NOTE: The policy of replacing Key Domain records when no more empty records are available in EF_{MSK} is HE specific. (e.g. delete Groups from visited Key Domains first)

Then, the USIM stores the Time Stamp field (retrieved from the MIKEY message) in its corresponding field under EF_{MUK} .

The USIM stores internally the last <u>successfully</u> used MUK along with its MUK ID for further use. This MUK may be used beyond its GBA validity (i.e. after the derivation of a new Ks_int_NAF resulting from a new bootstrap procedure) to verify the integrity of the <u>firsta</u> MIKEY message in order to detect a synchronization failure-of a <u>push solicited pull procedure</u>. This may occur if the last derived Ks_int_NAF did not reach the BM-SC.

NOTE: The MSK is not necessarily updated in the message, since a MSK transport message can be sent e.g. to update the Key Validity data.

Finally, if the V-bit in the HDR field of the received MIKEY message is set then the USIM shall produce a MSK Verification Message as described in TS 33.246 [43]. In this case the command response is the MIKEY verification message.

Input:

- MIKEY message

Output:

- MIKEY message

or

- None

7.1.1.7 MBMS security context (MSK Verification Mode) Void

USIM operations in MBMS security context are supported if service n°69 is "available".

The USIM receives the NAF_ID and MIKEY packet containing an MIKEY verification message, with an empty MAC field.

First, the USIM tests if the given MUK ID corresponds to a stored MUK ID in EF_{MUK} and if the Time Stamp field in the given MKEY message corresponds with the stored Time Stamp Counter (TS) in EF_{MUK}.

If any of these verifications fails, this is considered as a Verification failure and the USIM abandons the function. The status word '6985' (Conditions of use not satisfied) is returned.

Otherwise, the USIM computes the MAC value as defined in TS 33.246 [43] and sends back the complete MIKEY verification message.

Input:

- NAF_ID, MIKEY message

Output

— MIKEY message

7.1.1.8 MBMS security context (MTK Generation Mode)

USIM operations in MBMS security context are supported if service n°69 is "available".

The USIM receives the MIKEY message containing an MBMS MTK and a Salt key (if Salt key is available). First, the USIM retrieves the MSK with the Key Domain ID and the MSK ID given by the Extension payload of the MIKEY message (as described in TS 33.246 [43]).

If the needed MSK does not exist, this is considered as a MSK failure and the USIM abandons the function. The status word '6A88' (Referenced data not found) is returned.

If the key validity data of the MSK indicates an invalidated MSK (i.e. SEQI is greater than SEQu) then the USIM returns the status word '6985' (Conditions of use not satisfied) and abandons the function. SEQI and SEQu are defined in TS 33.246 [43].

Otherwise, the USIM performs the MBMS Generation and Validation Function (MGV-F) as described in TS 33.246 [43] using MSK.

If the USIM detects that the given MTK ID is invalid, this is considered as a SEQp freshness failure and the USIM abandons the function. The status word '9865' (Key freshness failure) is returned.

If the integrity validation of the MIKEY message is unsuccessful, the USIM abandons the function and returns the status word '9862' (Authentication error, incorrect MAC).

After successful MGV_F procedure the USIM stores the Time Stamp field (retrieved from the MIKEY message) as the Time Stamp Counter (TS) associated with the involved MSK under EF_{MSK}

The USIM also stores MTK ID (retrieved from the MIKEY message) as the SEQls associated with MSK.

Then, the USIM returns MTK and Salt key (if Salt key is available).

Input:

- MIKEY message

Output:

- MTK and Salt (if available)

7.1.2.5 MBMS security context (All Modes)

Byte(s)	Description	Length			
1	MBMS Security Context Mode	1			
2	Length of MIKEY message (L1)	1			
3 to (L1+2)	MIKEY message	L1			
(L1+3)	Length of NAF_ID (L2) (see note1)	4			
(L1+4) to	NAF_ID (see note1)	L2			
(L1+L2+3)					
NOTE 1: Parameter present if and only if in MSK Verification Mode.					

Parameter MBMS Security Context Mode specifies the MBMS mode in which MBMS security procedure is performed as follows:

Coding of MBMS Security Context Mode

Coding	Meaning					
'01'	MSK Update Mode					
'02	MSK Verification Mode					
'0 <u>2'3"</u>	MTK Generation Mode					

Response parameters/data, MBMS security context (MSK Verification-Update Mode), command successful:

Byte(s)	Description	Length			
1	"Successful MBMS operation" tag = 'DB' (see note 1)	1			
2	Length of MIKEY (L) (see note 1)	1			
3 to (L+2)	MIKEY message (see note 1)	L			
NOTE 1: Parameter present if a MIKEY verification message is returned.					

Response parameters/data, MBMS security context (MTK Generation Mode), command successful:

Byte(s)	Description	Length
1	"Successful MBMS operation" tag = 'DB'	1
2	Length of MTK and Salt (if Salt key is available) (L)	1
3 to (L+2)	MTK Salt (if available)	L

The coding of parameters is described in TS 33.246 [43].

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

C6-050394

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8.1 Phone book procedures

[..]

8.1.2 Update of the Phonebook Synchronisation Counter (PSC)

[..]

8.1.x Phonebook content handling

8.1.x.y.1 Handling of BCD number/ SSC content extension

8.1.x.y.1 Definition and applicability

The length of BCD number/SSC contents in EF_{ADN} byte gives the number of bytes of the following two data items containing actual BCD number/SSC information. This means that the maximum value is 11, even when the actual ADN/SSC information length is greater than 11. When an ADN/SSC has extension, it is indicated by the extension1 identifier being unequal to 'FF'. The remainder is stored in the EF_{EXTL} with the remaining length of the additional data being coded in the appropriate additional record itself.

This test applies to all terminals supporting the global phonebook.

8.1.x.y.2 Conformance requirement

The terminal shall support the BCD number/ SSC extension for EF_{ADN} as defined in 3GPP TS 31.102[4], subclauses 4.4.2.3 and 4.4.2.4.

Reference:

• 3GPP TS 31.102[4], subclauses 4.4.2.3 and 4.4.2.4.

8.1.x.y.3 Test purpose

1) To verify that the terminal is able to read and update BCD numbers/ SSC content with and without extension correctly in EF_{ADN} and EF_{EXTL}.

8.1.x.y.4 Method of test

8.1.x.y.4.1 Initial conditions

The terminal is connected to the USIM Simulator.

The default USIM is used with the following exceptions:

Only the global phonebook is present.

The global phonebook shall contain:

EF_{PBR} (Phonebook reference file)

<u>Logically: Only EF_{ADN} and EF_{EXT1} are present in the local phonebook.</u>

EF_{ADN} (Abbreviated dialling numbers)

Logically:

10 records, each record non-empty and unique. Unless otherwise stated, the ADN records shall not use extendend BCD numbers/SSC strings.

Record 1:	Length of alpha identifier:	32 characters;
	Alpha identifier:	"Contact001";
	Length of BCD number:	11;
	TON and NPI:	Telephony and International;
	Dialled number:	"00112233445566778899";
	CCI:	None;
	Ext1:	01.

Record 1:

Coding: Hex	 			<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>31</u>	<u>B11</u> <u>FF</u>	<u></u>	<u>B33</u> <u>0B</u>
					<u>B42</u>				

Record 2:	Length of alpha identifier:	32 characters;
	Alpha identifier:	"Contact002";
	Length of BCD number:	11;
	TON and NPI:	Telephony and International;
	Dialled number:	"01234567890123456789";
	CCI:	None;
	Ext1:	None.

Record 2:

Coding: Hex	<u>B1</u> <u>43</u>	<u>B2</u> <u>6F</u>	<u>B3</u> <u>6E</u>	<u>B4</u> <u>74</u>		<u>B6</u> <u>63</u>	<u>B7</u> <u>74</u>		<u>B9</u> <u>30</u>		<u>B11</u> <u>FF</u>	 	<u>B32</u> <u>FF</u>	<u>B33</u> <u>0B</u>
	<u>B34</u> 91	<u>B35</u> 10	<u>B36</u> 32	<u>B37</u> <u>54</u>	<u>B38</u> <u>76</u>	<u>B39</u> 98		<u>B41</u> <u>32</u>	<u>B42</u> <u>54</u>	<u>B43</u> 76	<u>B44</u> 98	<u>B45</u> FF	<u>B46</u> FF	

Record 3:	Length of alpha identifier:	32 characters;
	Alpha identifier:	"Contact003";
	Length of BCD number:	11;
	TON and NPI:	Telephony and International;
	Dialled number:	"99887766554433221100";
	CCI:	None;
	Ext1:	02.

Record 3:

Coding:	<u>B1</u>	<u>B2</u>	<u>B3</u>	<u>B4</u>	<u>B5</u>	<u>B6</u>	<u>B7</u>	<u>B8</u>	<u>B9</u>	 <u>B11</u>		<u>B32</u>	<u>B33</u>
Hex	<u>43</u>	<u>6F</u>	<u>6E</u>	<u>74</u>	<u>61</u>	<u>63</u>	<u>74</u>	<u>30</u>	<u>30</u>	<u>FF</u>		<u>FF</u>	<u>0B</u>
	<u>B34</u> 91	<u>B35</u> 99	<u>B36</u> 88	<u>B37</u> 77	<u>B38</u> 66		<u>B40</u> <u>44</u>		<u>B42</u> <u>22</u>	 <u>B44</u> 00	<u>B45</u> FF	<u>B46</u> 02	

Record 4:	Length of alpha identifier:	32 characters;
	Alpha identifier:	"Contact004";
	Length of BCD number:	9;

			and NP ed numb				ony and 212121							
Record 4:														
Coding: Hex	<u>B1</u> <u>43</u>	<u>B2</u> <u>6F</u>	<u>B3</u> <u>6E</u>	<u>B4</u> <u>74</u>	<u>B5</u> <u>61</u>	<u>B6</u> <u>63</u>	<u>B7</u> <u>74</u>	<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>34</u>	<u>B11</u> <u>FF</u>	<u></u>	<u>B32</u> <u>FF</u>	<u>B33</u> <u>09</u>
	<u>B34</u> <u>91</u>	<u>B35</u> <u>21</u>	<u>B36</u> <u>21</u>	<u>B37</u> <u>21</u>	<u>B38</u> <u>21</u>	<u>B39</u> <u>21</u>	<u>B40</u> <u>21</u>	<u>B41</u> <u>21</u>	<u>B42</u> <u>21</u>	<u>B43</u> <u>FF</u>	<u>B44</u> <u>FF</u>	<u>B45</u> <u>FF</u>	<u>B46</u> <u>FF</u>	
Record	7:	Alpha Lengt	a identife th of BC and NP ed number	ier: CD num I:		32 char "Contact 3; Telepho "678"; None; "FF".	ct007";	<u>Interna</u>	tional;					
Record 7:														
Coding: Hex	<u>B1</u> <u>43</u>	<u>B2</u> <u>6F</u>	<u>B3</u> <u>6E</u>	<u>B4</u> <u>74</u>	<u>B5</u> <u>61</u>	<u>B6</u> <u>63</u>	<u>B7</u> <u>74</u>	<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>37</u>	<u>B11</u> <u>FF</u>	<u></u>	<u>B32</u> <u>FF</u>	<u>B33</u> <u>03</u>
	<u>B34</u> <u>91</u>	<u>B35</u> <u>76</u>	<u>B36</u> <u>F8</u>	<u>B37</u> <u>FF</u>	<u>B38</u> <u>FF</u>	<u>B39</u> <u>FF</u>	<u>B40</u> <u>FF</u>	<u>B41</u> <u>FF</u>	<u>B42</u> <u>FF</u>	<u>B43</u> <u>FF</u>	<u>B44</u> <u>FF</u>	<u>B45</u> <u>FF</u>	<u>B46</u> <u>FF</u>	
EF _{EXT1} (Ex	<u>tension</u>	1)												
Logically: 4	1 records	<u>s</u>												
Record	1:		rd type: usion da ifier:			Addition "01234" "FF".	onal data 567890		789" <u>;</u>					
Record 1:														
Coding: Hex	<u>B1</u> <u>02</u>	<u>B2</u> <u>0A</u>	<u>B3</u> <u>10</u>	<u>B4</u> <u>32</u>	<u>B5</u> <u>54</u>	<u>B6</u> <u>76</u>	<u>B7</u> <u>98</u>	<u>B8</u> 10	<u>B9</u> <u>32</u>	<u>B10</u> <u>54</u>	<u>B11</u> <u>76</u>	<u>B12</u> <u>98</u>	<u>B13</u> <u>FF</u>	
Record	2:		rd type:				nal data							
		Exten Identi	ision da ifier:	ta:		"99887 "FF".	<u>766554</u>	433221	<u>100";</u>					
Record 2:														
Coding: Hex	<u>B1</u> <u>02</u>	<u>B2</u> <u>0A</u>	<u>B3</u> <u>99</u>	<u>B4</u> <u>88</u>	<u>B5</u> 77	<u>B6</u> 66	<u>B7</u> <u>55</u>	<u>B8</u> <u>44</u>	<u>B9</u> <u>33</u>	<u>B10</u> <u>22</u>	<u>B11</u> <u>11</u>	<u>B12</u> <u>00</u>	<u>B13</u> <u>03</u>	
Record	3:		rd type: usion da ifier:	ta:		Addition "11p12" "FF".		<u>1</u>						

Record 3:

Coding:	<u>B1</u>	<u>B2</u>	<u>B3</u>	<u>B4</u>	<u>B5</u>	<u>B6</u>	B7	<u>B8</u>	B9	<u>B10</u>	<u>B11</u>	<u>B12</u>	<u>B13</u>
Hex	<u>02</u>	<u>04</u>	<u>11</u>	<u>1C</u>	<u>32</u>	<u>54</u>	FF	<u>FF</u>	FF	<u>FF</u>	<u>FF</u>	<u>FF</u>	<u>FF</u>
Record	4:		rd type: nsion da ifier:			"FF" empty; "FF".							

Record 4:

 Coding:
 B1
 B2
 B3
 B4
 B5
 B6
 B7
 B8
 B9
 B10
 B11
 B12
 B13

 Hex
 FF
 FF

8.1.x.y.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall use a MMI dependent procedure to select the global phonebook.
- c) The user shall change the BCD number of the entry "Contact002" in record 2 of EF_{ADN} to "22446622446622446600777888999"
- d) The user shall extend the BCD number of the entry "Contact007" in record 2 of EF_{ADN} to "01234567890123456789777888999"
- e) The user shall delete the phonbook entry "Contact001".
- f) The user shall set the BCD number of the entry "Contact002" in record 2 of EF_{ADN} to "22446622446600"
- g) The user shall create the new phonebook entry "NewContact" with the BCD number "123456789012345678901234567890123456789012".
- h) The user shall delete the phonbook entry "Contact003".
- i) The terminal is switched off.

8.1.x.y.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application.
- 2) After step b) the terminal shall have selected the global phonebook and shall have read EF_{PBR} in the global phonebook.
- 3) After step c) the record 2 of EF_{ADN} shall contain "22446622446600" as BCD number and "04" as extension record identifier. Record 4 of EF_{EXT1} shall contain "Additional data" as record type, the BCD number extension "777888999" and "FF" as identifier to indicate the end of the chain.
- 4) After step d) the terminal shall have taken action to prevent storage of the extended BCD number, e.g. by giving an indication to the user or not allowing to enter the extended number. EF_{EXT1} shall have not been updated and the extension record identifier of record 7 in EF_{ADN} shall remain as "FF".
- 5) After step e) record 1 of EF_{ADN} and EF_{EXT1} shall be empty.
- 6) After step f) record 4 of EF_{EXT1} shall be empty and the record used for storing the entry with the alpha identifier "Contact002" of EF_{ADN} shall contain the BCD number "22446622446600" and the extension record identifier "FF".
- 7) After step g) a record of EF_{ADN} shall contain "NewContact" as alpha identifier, "12345678901234567890" as BCD number and shall use an extension record identifier unequal to "FF".
 - The EF_{EXT1} record which was indicated in the EF_{ADN} record used in this case shall contain "Additional data" as record type, "12345678901234567890" as BCD number and an extension record identifier unequal to "FF",

 $\frac{\text{while the } EF_{EXT1} \text{ record used to continue the chain inside } EF_{EXT1} \text{shall contain "Additional data" as record type,} \\ \underline{"123456789012"} \text{ as } BCD \text{ number and "FF" as extension record identifier.}$

8) After step h) record 3 of EF_{ADN} and the related records of EF_{EXT1} shall be empty.

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

C6-050396

	CHANGE REQUEST											
*		31	.121	CR 07	2	жrev	-	¥	Current vers	sion:	5.1.0	¥
For <u>HL</u>	For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the \mathbb{H} symbols.											
Proposed change affects: UICC apps第 ME X Radio Access Network Core Network												
Title:	H	CR	31.12	1 Rel-5: In	troduction	of ACL to	ests					
Source:	\mathfrak{H}	СТ	6									
Work iten	n code: ₩	TE	l-6						Date: ₩	29/	04/2005	
Category	: ≆	Deta	F (corn A (corn B (add C (fun D (edi iled exp	the following rection) responds to dition of feat ctional modifi blanations of 3GPP TR 2	a correction a correction a correction if it is a correction of the correction of the correction is the above	on in an ea feature)		lease	Release: #8 Use <u>one</u> of Ph2) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6 Rel-7	the for (GSM (Rele (Rele (Rele (Rele (Rele (Rele	-)))
Reason fo	or change	e: #							e USIM serv andles the A			
Summary	of chane	ge: ૠ	Introd	uction of A	CL tests in	nto 3GPP	TS 3	1.12′	1			
Conseque not appro		ж		sts availab SIM correc		that the	termin	al ha	andles the A	CL se	rvice pro	vided by
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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:

- 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.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1]	ISO/IEC 7816-1 (1998): "Identification cards - Integrated circuit(s) cards with contacts - Part 1: Physical characteristics".
[2]	ISO/IEC 7816-6 (1996): "Identification cards - Integrated circuit(s) cards with contacts - Part 6: Interindustry data elements".
[3]	3GPP TS 23.038: "Alphabets and language-specific information".
[4]	3GPP TS 31.102: "Characteristics of the USIM application".
[5]	ETSI TS 102 221 Release 99: "UICC-Terminal interface; Physical and logical characteristics".
[6]	3GPP TS 22.011: "Service accessibility".
[7]	3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
[8]	3GPP TS 22.024: "Description of Charge Advice Information (CAI)".
[9]	3GPP TS 23.086: "Advice of Charge (AoC) Supplementary Service - Stage 2".
[10]	3GPP TS 24.086: "Advice of Charge (AoC) Supplementary Service - Stage 3".
[11]	3GPP TS 22.101: "Service aspects; Service principles".
[12]	3GPP TS 22.030: "Man-Machine Interface (MMI) of the User Equipment (UE)".
[13]	3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".
[14]	3GPP TS 23.003: "Numbering, Addressing and Identification".
[15]	GSM 04.18: "Mobile radio interface layer 3 specification; Radio Resource Control Protocol".
[16]	3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core Network protocols; Stage 3".
[17]	3GPP TS 24.080: "Mobile radio Layer 3 supplementary service specification; Formats and coding".
[18]	3GPP TS 22.086: "Advice of Charge (AoC) supplementary services; Stage 1".
[19]	3GPP TS 21.111: "USIM and IC card requirements".

[20]	3GPP TS 25.331 "Radio Resource Control (RRC); Protocol Specification"
[21]	3GPP TS 34.108 "Common test environments for User Equipment (UE) conformance testing"
[22]	3GPP TS 51.010-1 "Mobile Station (MS) conformance specification; Part1: Conformance specification"
[xx]	3GPP TS 23.060 "General Packet Radio Service (GPRS); Service description; Stage 2"

8 Subscription independent tests

[..]

x USIM service handling

x.y Access Point Name Control List handling

x.y.1 Access Point Name Control List handling for terminals supporting ACL

x.y.1.1 Definition and applicability

This EF_{ACL} contains the list of allowed APNs (Access Point Names). When the APN Control List service is enabled, the ME shall check that the entire APN of any PDP context is listed in EF_{ACL} before requesting this PDP context activation from the network. If the APN is not present in EF_{ACL} , the ME shall not request the corresponding PDP context activation from the network.

This test applies to terminals supporting ACL.

x.y.1.2 Conformance requirement

The terminal shall support the APN Control List service as defined in 3GPP TS 31.102[4], subclauses 5.1.1.2 and 5.3.14.

Reference:

- 3GPP TS 31.102[4], subclauses 4.2.8, 4.2.48, 5.1.1.2 and 5.3.14;
- 3GPP TS 23.060[xx], subclause 9.2.

x.y.1.3 Test purpose

- 1) To verify that the terminal takes into account the status of the APN Control List service as indicated in EF_{UST} and EF_{EST}.
- 2) To verify that the terminal checks that the entire APN of any PDP context is listed in EF_{ACL} before requesting this PDP context activation from the network if the ACL service is enabled.
- 3) To verify that the terminal does not request the corresponding PDP context activation from the network if the ACL service is enabled and the APN is not present in EF_{ACL}.

x.y.1.4 Method of test

x.y.1.4.1 Initial conditions

The terminal is connected to the USIM Simulator and the (U)SS.

The default USIM is used with the following exceptions:

The APN Control List (ACL) shall be allocated and activated in the USIM Service Table and enabled in the Enabled Service Table.

EF_{ACL} shall be present with the following values:

EF_{ACL} (Access Point Control List)

Logically:	Number of APNs:	3
	1 st APN:	test.test
	2 nd APN:	3gpp.test
	3 rd APN:	2gpp.test

Byte:	<u>B1</u>	<u>B2</u>	<u>B3</u>	<u>B4</u>	<u>B5</u>	<u>B6</u>	<u>B7</u>	<u>B8</u>	<u>B9</u>	<u>B10</u>	<u>B11</u>	<u>B12</u>
Coding:	<u>03</u>	<u>DD</u>	<u>0A</u>	<u>04</u>	<u>74</u>	65	<u>73</u>	<u>74</u>	<u>04</u>	<u>74</u>	<u>65</u>	<u>73</u>
	<u>B13</u>	<u>B14</u>	<u>B15</u>	<u>B16</u>	<u>B17</u>	<u>B18</u>	<u>B19</u>	<u>B20</u>	<u>B21</u>	<u>B22</u>	<u>B23</u>	<u>B24</u>
	<u>74</u>	<u>DD</u>	<u>0A</u>	<u>04</u>	<u>33</u>	<u>67</u>	<u>70</u>	<u>70</u>	<u>04</u>	<u>74</u>	<u>65</u>	<u>73</u>
	<u>B25</u>	B26	<u>B27</u>	<u>B28</u>	<u>B29</u>	<u>B30</u>	<u>B31</u>	<u>B32</u>	<u>B33</u>	<u>B34</u>	<u>B35</u>	<u>B36</u>
	<u>74</u>	DD	<u>0A</u>	<u>04</u>	<u>32</u>	<u>67</u>	<u>70</u>	<u>70</u>	<u>04</u>	<u>74</u>	65	<u>73</u>
	<u>B37</u> <u>74</u>											

x.y.1.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall request a PDP context activation to "1gpp.test".
- c) The user shall request a PDP context activation to "3gpp.test".
- d) The user shall deactivate the PDP context.
- e) The user shall disable the APN Control List service. When prompted to enter PIN2, the user shall present the correct PIN2 value.
- f) The user shall request a PDP context activation to "1gpp.test".
- g) The user shall switch off the terminal (to deactivate the PDP context) and shall switch the terminal on again.
- h) The user shall enable the APN Control List service. When prompted to enter PIN2, the user shall present the correct PIN2 value.
- i) The user shall request a PDP context activation to "1ppp.net".
- j) The terminal is switched off and on.
- k) The user shall add the APN "1ppp.net" to the APN Control List. When prompted to enter PIN2, the user shall present the correct PIN2 value.
- 1) The user shall request a PDP context activation to "1ppp.net".

m) The user shall switch off the terminal (to deactivate the PDP context).

x.y.1.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application, shall have read the status of the ACL service in EF_{UST} and EF_{EST} and be in updated idle mode on the (U)SS.
- 2) The terminal shall have not requested a PDP context activation in step b).
- 3) After step c) the PDP context shall have been activated.
- 4) After step d) the PDP context shall have been deactivated.
- 5) After step e) the APN Control List service shall have been set to disabled in EF_{EST}.
- 6) After step f) the PDP context shall have been activated.
- 7) After step g) the PDP context shall have been deactivated.
- 8) After step h) the APN Control List service shall have been set to enabled in EF_{EST}.
- 9) The terminal shall not have requested a PDP context activation in step i).
- 10) After step k) the APN "1ppp.net" shall have been added to the APN Control List in EF_{ACL}.
- 11) After step l) the PDP context shall have been activated.

x.y.2 Network provided APN handling for terminals supporting ACL

x.y.2.1 Definition and applicability

This EF_{ACL} contains the list of allowed APNs (Access Point Names). When the APN Control List service is enabled, the ME shall check that the entire APN of any PDP context is listed in EF_{ACL} before requesting this PDP context activation from the network. If the APN is not present in EF_{ACL} , the ME shall not request the corresponding PDP context activation from the network.

In the case that the APN Control List is enabled and no APN is indicated in the PDP context request, indicating that a network provided APN is to be used, then the ME shall only request the PDP context activation if "network provided APN" is contained within EF_{ACL} .

This test applies to terminals supporting ACL.

x.y.2.2 Conformance requirement

The terminal shall support the APN Control List service as defined in 3GPP TS 31.102[4], subclauses 5.1.1.2 and 5.3.14.

Reference:

- 3GPP TS 31.102[4], subclauses 4.2.8, 4.2.48, 5.1.1.2 and 5.3.14;
- 3GPP TS 23.060[xx], subclause 9.2.

x.y.2.3 Test purpose

- 1) To verify that if ACL is enabled and if no APN is indicated in the PDP context the terminal request the PDP context activation only if "network provided APN" is contained within EF_{ACL}.
- 2) To verify that the user is able to set an APN in EF_{ACL} entry to the value "network provided APN".
- 3) To verify that the minimum set of APN entries in EF_{ACL} is ensured when the user deletes APN entries.

x.y.2.4 Method of test

x.y.2.4.1 Initial conditions

The terminal is connected to the USIM Simulator and the (U)SS.

The default USIM is used with the following exceptions:

The APN Control List (ACL) shall be allocated and activated in the USIM Service Table and enabled in the Enabled Service Table.

EF_{ACL} shall be present with the following values:

EF_{ACL} (Access Point Control List)

Logically:	Number of APNs:	3
	1 st APN:	test.test
	2 nd APN:	3gpp.test
	3 rd APN:	2gpp.test

Byte:	<u>B1</u>	<u>B2</u>	<u>B3</u>	<u>B4</u>	<u>B5</u>	<u>B6</u>	<u>B7</u>	<u>B8</u>	<u>B9</u>	<u>B10</u>	<u>B11</u>	<u>B12</u>
Coding:	<u>03</u>	<u>DD</u>	<u>0A</u>	<u>04</u>	74	65	73	74	<u>04</u>	<u>74</u>	<u>65</u>	<u>73</u>
	<u>B13</u>	<u>B14</u>	<u>B15</u>	<u>B16</u>	<u>B17</u>	<u>B18</u>	<u>B19</u>	<u>B20</u>	<u>B21</u>	<u>B22</u>	<u>B23</u>	<u>B24</u>
	<u>74</u>	<u>DD</u>	<u>0A</u>	<u>04</u>	<u>33</u>	<u>67</u>	<u>70</u>	<u>70</u>	<u>04</u>	<u>74</u>	<u>65</u>	<u>73</u>
	<u>B25</u>	<u>B26</u>	<u>B27</u>	<u>B28</u>	<u>B29</u>	<u>B30</u>	<u>B31</u>	<u>B32</u>	<u>B33</u>	<u>B34</u>	<u>B35</u>	<u>B36</u>
	<u>74</u>	<u>DD</u>	<u>0A</u>	<u>04</u>	<u>32</u>	<u>67</u>	<u>70</u>	<u>70</u>	<u>04</u>	<u>74</u>	<u>65</u>	<u>73</u>
	<u>B37</u> <u>74</u>											

x.y.2.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall add "network provided APN" to the APN Control List in EF_{ACL} by using a MMI dependent option in the terminal. When prompted to enter PIN2, the user shall present the correct PIN2 value.
- c) The user shall request a PDP context activation to "3gpp.test".
- d) The user shall deactivate the PDP context.
- e) The user shall request a PDP context activation without indicating an APN.
- f) The user shall deactivate the PDP context.
- g) The user shall delete "network provided APN" from the APN Control List in EF_{ACL} by using a MMI dependent option in the terminal. When prompted to enter PIN2, the user shall present the correct PIN2 value.
- h) The user shall request a PDP context activation to "3gpp.test".
- i) The user shall deactivate the PDP context.
- j) The user shall request a PDP context activation without indicating an APN.
- k) The user shall try to delete all APNs from the APN Control List in EF_{ACL} by using a MMI dependent option in the terminal. When the terminal indicates that at least one APN entry shall remain, the user shall set this entry to "network provided APN". When prompted to enter PIN2, the user shall present the correct PIN2 value.
- 1) The user shall switch off the terminal.

x.y.2.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application, shall have read the status of the ACL service in EF_{UST} and EF_{EST} and be in updated idle mode on the (U)SS.
- 2) After step b) EF_{ACL} shall contain an entry for "network provided APN".
- 3) After step c) the PDP context shall have been activated.
- 4) After step d) the PDP context shall have been deactivated.
- 5) After step e) the PDP context shall have been activated.
- 6) After step f) the PDP context shall have been deactivated.
- 7) After step g) EF_{ACL} shall not contain an entry for "network provided APN".
- 8) After step h) the PDP context shall have been activated.
- 9) After step i) the PDP context shall have been deactivated.
- 10) The terminal shall have not requested a PDP context activation in step j).
- 11) After step k) EF_{ACL} shall contain one APN entry with the value "network provided APN" and the corresponding number of APNs in EF_{ACL} shall be 1.

x.y.3 Access Point Name Control List handling for terminals not supporting ACL

x.y.3.1 Definition and applicability

This EF_{ACL} contains the list of allowed APNs (Access Point Names). When the APN Control List service is enabled, the ME shall check that the entire APN of any PDP context is listed in EF_{ACL} before requesting this PDP context activation from the network. If the APN is not present in EF_{ACL} , the ME shall not request the corresponding PDP context activation from the network.

If ACL is enabled, a ME which does not support ACL shall not send any APN to the network.

This test applies to terminals not supporting ACL.

x.y.3.2 Conformance requirement

An ME which does not support ACL shall not send any APN to the network if ACL is enabled.

Reference:

• 3GPP TS 31.102[4], 5.1.1.2.

x.y.3.3 Test purpose

To verify that if ACL is enabled, a ME which does not support ACL, does not send any APN to the network to request a PDP context activation.

x.y.3.4 Method of test

x.y.3.4.1 Initial conditions

The terminal is connected to the USIM Simulator and the (U)SS.

The default USIM is used with the following exceptions:

The APN Control List (ACL) shall be allocated and activated in the USIM Service Table and enabled in the Enabled Service Table.

EF_{ACL} shall be present with the following values:

EF_{ACL} (Access Point Control List)

Logically:	Number of APNs:	3
	1 st APN:	test.test
	2 nd APN:	3gpp.test
	3 rd APN:	2gpp.test

Byte:	<u>B1</u>	<u>B2</u>	<u>B3</u>	<u>B4</u>	<u>B5</u>	<u>B6</u>	<u>B7</u>	<u>B8</u>	<u>B9</u>	<u>B10</u>	<u>B11</u>	<u>B12</u>
Coding:	<u>03</u>	<u>DD</u>	<u>0A</u>	<u>04</u>	<u>74</u>	<u>65</u>	<u>73</u>	<u>74</u>	<u>04</u>	<u>74</u>	<u>65</u>	<u>73</u>
	<u>B13</u>	<u>B14</u>	<u>B15</u>	<u>B16</u>	B17	B18	<u>B19</u>	<u>B20</u>	<u>B21</u>	<u>B22</u>	B23	<u>B24</u>
	<u>74</u>	<u>DD</u>	<u>0A</u>	<u>04</u>	33	67	<u>70</u>	<u>70</u>	<u>04</u>	<u>74</u>	65	<u>73</u>
	<u>B25</u>	<u>B26</u>	<u>B27</u>	<u>B28</u>	<u>B29</u>	<u>B30</u>	<u>B31</u>	<u>B32</u>	<u>B33</u>	<u>B34</u>	<u>B35</u>	<u>B36</u>
	<u>74</u>	<u>DD</u>	<u>0A</u>	<u>04</u>	<u>32</u>	<u>67</u>	<u>70</u>	<u>70</u>	<u>04</u>	<u>74</u>	<u>65</u>	<u>73</u>
	<u>B37</u> <u>74</u>											

x.x.3.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall request a PDP context activation to "3gpp.test".
- c) The terminal shall be switched off.

x.y.3.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application, shall have read the status of the ACL service in EF_{UST} and EF_{EST} and be in updated idle mode on the (U)SS.
- 2) The terminal shall not have sent any APN to the network in step b).

Cancun, Mexico,									
CHANGE REQUEST									
*	31 102 CR 286								
For HELP on use	sing this form, see bottom of this page or look at the pop-up text over the 策 symbols. affects: UICC apps策X MEX Radio Access Network Core Network								
Title: Ж	Number of stored MSKs								
Source: #	CT6								
Work item code: 光	TEI Date: 第 28/04/2005								
Category: ₩	F 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. Release: Use one of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)								
Reason for change	number of stored MSK per Key Domain ID/Key Group ID from 2 to 16. Although this proposal was not adopted for release 6, it was noted that the maximum number of stored MSKs could be upgraded in future releases. To avoid future backward compatible issues a mechanism to indicate the number of stored Key IDs shall be defined.								
Consequences if not approved:	₩ No possible future evolution of the number of stored MSKs per record.								
Clauses affected: Other specs affected: Other comments:	# 4.2.80, 7.1.1.3, 7.1.1.5, 7.1.1.6 Y N								

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 \(\mathcal{H} \) 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.

4.2.80 EF_{MSK} (MBMS Service Keys List)

A record of this EF contains the list of MBMS Service Keys (MSK) and associated parameters, which are related to an MBMS Key Domain. There are up to two MSKs per Key Domain ID/Key Group ID pair, where the Key Group ID is the Key Group part of the MSK ID as defined in TS 33.246 [43]. Two 4 byte MSK IDs stored within a record have the same value for the 2 byte Key Group part. This file shall be present if the MBMS security service (service number 69) is allocated in EF_{UST} (USIM Service Table).

ldentifier:	'6FD7'	Str	ucture: linear fixe	ed	Optional		
Record ler	ngth: 19 <u>8n+4</u> by	ytes	Update activity: low				
Access Conditions	s:						
READ		PIN					
UPDATE		ADM					
DEACTIVA	ATE	ADM					
ACTIVATE		ADM					
Bytes		Descriptio	n	M/O	Length		
1 to 3	Key Domain I	D		М	3 bytes		
4	Number of sto	red MSK IDs	s and	M	1 byte		
_	corresponding	TS					
<u>5</u> 4 to <u>8</u> 7	1 st MSK ID			M	4 bytes		
98 to 124	1 st Time Stam	p Counter (T	S)	М	4 bytes		
1 <u>3</u> 2 to 1 <u>6</u> 5	2 nd MSK ID			М	4 bytes		
1 <u>7</u> 6 to <u>20</u> 19	2 nd Time Stan	np Counter (ΓS)	М	4 bytes		
8(n-1)+5 to 8n	n th MSK ID			<u>O</u>	4 bytes		
				(See Note)			
8n+1 to 8n+4	n th Time Stam	p Counter (T	<u>S)</u>	<u>C</u>	4 bytes		
				(See Note)			
Note: In the cu	arrent version of	f the specific	ation, these byte	s are RFU.			

- Key Domain ID:

Content: Identifier of the Domain of the BM-SC providing MBMS Service Coding: As defined in TS 33.246 [43]

- Number of stored MSK IDs and corresponding TS:

Content: Number of stored MSK IDs and corresponding Time Stamp counter (TS) within the record, as defined in TS 33.246 [43]. This number shall not exceed the maximum limit of MSK IDs fixed in TS 33.246 [43] (e.g if the maximum number of MSK IDs is 2, then this byte may only take the following values: '00', '01', '02'). Coding: binary.

- MSK ID:

Content: Identifier of MBMS Service Key (MSK) within a particular Key Domain. Coding: As defined in TS 33.246 [43]

- Time Stamp Counter (TS)

Content: Counter for MIKEY replay protection in MTK delivery. Each counter is associated with a particular MSK.

Coding: As defined in TS 33.246 [43]

Any unused bytes shall be set to 'FF'.

7.1.1.3 VGCS/VBS security context

USIM operation in a VGCS/VBS security context is supported if Service n°64 or Service n°65 are "available".

The USIM computes the Short Term Key (VSTK) associated with a particular VGCS/VBS Group Identifier (Group_Id). For this computation, the USIM uses the Voice Group (for VGCS) or Broadcast Group (for VBS) Key

(V_Ki) identified by their respective Group_Id and Master Group Key Identifier (VK_Id). The USIM retrieves the Group_Id and the service flag (VGCS or VBS) from the received Voice Service Identifier (VService_Id).

NOTE: The Group_Id has a variable length according to TS 43.068 [xx46].

The USIM shall first search if the Group_Id corresponds to a stored VGCS Group Identifier in EF_{VGCS} or a stored VBS Group Identifier in EF_{VBS} .

Then, the USIM shall retrieve the V_Ki corresponding to the given Group_Id and VK_Id.

Then the USIM uses V_Ki and VSTK_RAND as input parameters for the A8_V key derivation function (as defined in 3GPP TS 43.020 [44]) in order to compute and returns VSTK.

Input:

VService_Id, VK_Id, VSTK_RAND

Output:

VSTK.

7.1.1.5 GBA security context (NAF Derivation Mode)

USIM operations in GBA security context are supported if service n°68 is "available".

The USIM receives the NAF_ID and IMPI.

The USIM performs Ks_ext_NAF and Ks_int_NAF derivation as defined in TS 33.220 [42] using the key material from the previous GBA_U bootstrapping procedure.

If no key material is available this is considered as a GBA Bootstrapping failure and the USIM abandons the function. The status word '6985' (Conditions of use not satisfied) is returned.

Otherwise, the USIM stores Ks_int_NAF and associated B-TID together with NAF_ID. The Ks_int_NAF keys related to other NAF_IDs, which are already stored in the USIM, shall not be affected. The USIM updates EF_{GBANL} as follows:

- If a record with the given NAF_ID already exists, the USIM updates the B-TID field of this record with the B-TID value associated to the GBA_U bootstrapped key involved in this GBA_U NAF derivation procedure.
- _____If a record with the given NAF_ID does not exist, the USIM uses an empty record to store the NAF_ID and the B-TID value associated to the GBA_U bootstrapped key involved in this GBA_U NAF Derivation procedure.

NOTE: According to TS 33.220 [42], the USIM can contain several Ks_int_NAF together with the associated B-TID and NAF_ID, but there is at most one pair of Ks_int_NAF and associated B-TID stored per NAF_ID.

Then, the USIM returns Ks_ext_NAF.

Input:

- NAF_ID, IMPI

Output:

- Ks_ext_NAF

[...]

7.1.1.6 MBMS security context (MSK Update Mode)

The USIM receives the MIKEY packet containing an MSK update message. First, the USIM uses the MUK ID to identify the Ks_int_NAF corresponding with a previous bootstrapping procedure.

The USIM shall check if a new NAF derivation procedure involving the received NAF_ID in the MIKEY message has been performed. In such a case, the USIM shall store the last bootstrapped Ks_int_NAF as the current MUK and update EF_{MUK} as follows:

- If a record with the received NAF_ID (included in the MUK ID: see TS 33.246 [43]) value is already present, then the MUK ID is stored in the corresponding field of this record, and the associated Time Stamp Counter (TS) field is reset. Additionally, the USIM internally stores the last used MUK (i.e. MUK that was used during the last successful MSK update procedure), along with its MUK ID for further use (e.g. to detect Key freshness failure).
- If a record with the received NAF_ ID does not exist, the USIM uses an empty record to include the MUK ID, and reset the associated TS field.

If the received MUK ID does not correspond to the current MUK (i.e. last bootstrapped MUK) then the USIM proceeds as follows:

- If the received MUK ID corresponds to the last used MUK and if the received MIKEY message corresponds to a push solicited pull procedure then the USIM uses this MUK to verify the integrity of the message. If the verification is unsuccessful, the USIM abandons the function and returns the status word '9862' (Authentication error, incorrect MAC). If the verification is successful, the USIM abandons the function and returns the status word '9865' (the BM-SC shall be notified to retrieve the latest Ks_int_NAF: see TS 33.246 [43]).
- Otherwise, this is considered as a bootstrapping failure (incorrect MUK) and the USIM abandons the function. The status word '6A88' (Referenced data not found) is returned.

Otherwise, if the received MUK ID corresponds to the current MUK, the USIM uses the MUK value for MSK validation and derivation functions as described in TS 33.246 [43]. If the validation is unsuccessful, the status word '9862' (Authentication error, incorrect MAC) is returned and the USIM abandons the function.

After a successful MSK Update procedure the USIM stores the received MSK and updates EF_{MSK} as follows:

- If a record with the received Key Domain ID and Key Group part (i.e. Key Group part of the MSK ID) already exists, the 2nd -MSK ID and the associated TS shall be replaced by the 1st MSK ID and the associated TS. Then the new MSK ID is stored as the 1st MSK ID and the associated TS is reset. The number of stored MSK IDs and corresponding TS shall be set to '02'.
- If a record with the received Key Domain ID and Key Group part does not exist, the USIM uses an empty record to include those values. The received MSK ID is stored as the 1st MSK ID and the associated TS is reset. The 2nd MSK ID and the associated TS are set to 'FF FF'. The number of stored MSK IDs and corresponding TS shall be set to '01'.

NOTE: The policy of replacing Key Domain records when no more empty records are available in EF_{MSK} is HE specific. (e.g. delete Groups from visited Key Domains first)

Then, the USIM stores the Time Stamp field (retrieved from the MIKEY message) in its corresponding field under EF_{MUK}.

The USIM stores internally the last used MUK along with its MUK ID for further use. This MUK may be used beyond its GBA validity (i.e. after the derivation of a new Ks_int_NAF resulting from a new bootstrap procedure) to verify the integrity of the first MIKEY message in order to detect a synchronization failure of a push solicited pull procedure. This may occur if the last derived Ks_int_NAF did not reach the BM-SC.

NOTE: The MSK is not necessarily updated in the message, since a MSK transport message can be sent e.g. to update the Key Validity data.

Input:

- MIKEY message

Output:

- None

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Source: #	СТ6	;										
									Data: 99	20/	04/2005	
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Consequences if not approved:	* 1	No po	ssible	future evolu	ution of t	he nu	mber	of s	stored MSKs	per	record.	
Clauses affected:	ж	4.2.8	0, 7.1	1.3, 7.1.1.5	i							
Other specs affected:	ж	Y N X X	Test	core speci specification Specification	ns		H					

How to create CRs using this form:

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Other comments:

- 1) Fill out the above form. The symbols above marked \(\mathcal{H} \) 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.

4.2.80 EF_{MSK} (MBMS Service Keys List)

A record of this EF contains the list of MBMS Service Keys (MSK) and associated parameters, which are related to an MBMS Key Domain. There are up to two MSKs per Key Domain ID/Key Group ID pair, where the Key Group ID is the Key Group part of the MSK ID as defined in TS 33.246 [43]. Two 4 byte MSK IDs stored within a record have the same value for the 2 byte Key Group part. This file shall be present if the MBMS security service (service number 69) is allocated in EF_{UST} (USIM Service Table).

Identifier:	'6FD7'	Str	ucture: linear f	ixed	Optional
Record ler	ngth: 19 <u>8n+4</u> b	ytes	l	Update activity: lov	V
Access Conditions	3:				
READ		PIN			
UPDATE		ADM			
DEACTIVA	ATE	ADM			
ACTIVATE		ADM			
Bytes		Descriptio	n	M/O	Length
1 to 3	Key Domain I	D		M	3 bytes
<u>4</u>	Number of sto	ored MSK IDs	s and	<u>M</u>	1 byte
	corresponding	<u>1 TS</u>			
<u>5</u> 4 to <u>8</u> 7	1 st MSK ID			М	4 bytes
98 to 124	1 st Time Stam	p Counter (T	S)	М	4 bytes
1 <u>3</u> 2 to 1 <u>6</u> 5	2 nd MSK ID			M	4 bytes
1 <u>7</u> 6 to <u>20</u> 19	2 nd Time Stan	np Counter (ΓS)	M	4 bytes
8(n-1)+5 to 8n	nth MSK ID			<u>O</u>	4 bytes
				(See Note)	
8n+1 to 8n+4	nth Time Stam	np Counter (T	<u>'S)</u>	<u>C</u>	4 bytes
				(See Note)	
Note: In the cu	<u>irrent version o</u>	f the specific	ation, these by	<u>tes are RFU.</u>	

- Key Domain ID:

Content: Identifier of the Domain of the BM-SC providing MBMS Service Coding: As defined in TS 33.246 [43]

- Number of stored MSK IDs and corresponding TS:

Content: Number of stored MSK IDs and corresponding Time Stamp counter (TS) within the record, as defined in TS 33.246 [43]. This number shall not exceed the maximum limit of MSK IDs fixed in TS 33.246 [43] (e.g if the maximum number of MSK IDs is 2, then this byte may only take the following values: '00', '01', '02'). Coding: binary.

- MSK ID:

Content: Identifier of MBMS Service Key (MSK) within a particular Key Domain. Coding: As defined in TS 33.246 [43]

- Time Stamp Counter (TS)

Content: Counter for MIKEY replay protection in MTK delivery. Each counter is associated with a particular MSK.

Coding: As defined in TS 33.246 [43]

Any unused bytes shall be set to 'FF'.

7.1.1.3 VGCS/VBS security context

USIM operation in a VGCS/VBS security context is supported if Service n°64 or Service n°65 are "available".

The USIM computes the Short Term Key (VSTK) associated with a particular VGCS/VBS Group Identifier (Group_Id). For this computation, the USIM uses the Voice Group (for VGCS) or Broadcast Group (for VBS) Key

(V_Ki) identified by their respective Group_Id and Master Group Key Identifier (VK_Id). The USIM retrieves the Group_Id and the service flag (VGCS or VBS) from the received Voice Service Identifier (VService_Id).

NOTE: The Group_Id has a variable length according to TS 43.068 [xx46].

The USIM shall first search if the Group_Id corresponds to a stored VGCS Group Identifier in EF_{VGCS} or a stored VBS Group Identifier in EF_{VBS} .

Then, the USIM shall retrieve the V_Ki corresponding to the given Group_Id and VK_Id.

Then the USIM uses V_Ki and VSTK_RAND as input parameters for the A8_V key derivation function (as defined in 3GPP TS 43.020 [44]) in order to compute and returns VSTK.

Input:

VService_Id, VK_Id, VSTK_RAND

Output:

VSTK.

7.1.1.5 GBA security context (NAF Derivation Mode)

USIM operations in GBA security context are supported if service n°68 is "available".

The USIM receives the NAF_ID and IMPI.

The USIM performs Ks_ext_NAF and Ks_int_NAF derivation as defined in TS 33.220 [42] using the key material from the previous GBA_U bootstrapping procedure.

If no key material is available this is considered as a GBA Bootstrapping failure and the USIM abandons the function. The status word '6985' (Conditions of use not satisfied) is returned.

Otherwise, the USIM stores Ks_int_NAF and associated B-TID together with NAF_ID. The Ks_int_NAF keys related to other NAF_IDs, which are already stored in the USIM, shall not be affected. The USIM updates EF_{GBANL} as follows:

- If a record with the given NAF_ID already exists, the USIM updates the B-TID field of this record with the B-TID value associated to the GBA_U bootstrapped key involved in this GBA_U NAF derivation procedure.
- ______If a record with the given NAF_ID does not exist, the USIM uses an empty record to store the NAF_ID and the B-TID value associated to the GBA_U bootstrapped key involved in this GBA_U NAF Derivation procedure.

NOTE: According to TS 33.220 [42], the USIM can contain several Ks_int_NAF together with the associated B-TID and NAF_ID, but there is at most one pair of Ks_int_NAF and associated B-TID stored per NAF_ID.

Then, the USIM returns Ks_ext_NAF.

Input:

- NAF_ID, IMPI

Output:

- Ks_ext_NAF

[...]

7.1.1.6 MBMS security context (MSK Update Mode)

The USIM receives the MIKEY packet containing an MSK update message. First, the USIM uses the MUK ID to identify the Ks_int_NAF corresponding with a previous bootstrapping procedure.

The USIM shall check if a new NAF derivation procedure involving the received NAF_ID in the MIKEY message has been performed. In such a case, the USIM shall store the last bootstrapped Ks_int_NAF as the current MUK and update EF_{MUK} as follows:

- If a record with the received NAF_ID (included in the MUK ID: see TS 33.246 [43]) value is already present, then the MUK ID is stored in the corresponding field of this record, and the associated Time Stamp Counter (TS) field is reset. Additionally, the USIM internally stores the last used MUK (i.e. MUK that was used during the last successful MSK update procedure), along with its MUK ID for further use (e.g. to detect Key freshness failure).
- If a record with the received NAF_ID does not exist, the USIM uses an empty record to include the MUK ID, and reset the associated TS field.

If the received MUK ID does not correspond to the current MUK (i.e. last bootstrapped MUK) then the USIM proceeds as follows:

- If the received MUK ID corresponds to the last used MUK and if the received MIKEY message corresponds to a push solicited pull procedure then the USIM uses this MUK to verify the integrity of the message. If the verification is unsuccessful, the USIM abandons the function and returns the status word '9862' (Authentication error, incorrect MAC). If the verification is successful, the USIM abandons the function and returns the status word '9865' (the BM-SC shall be notified to retrieve the latest Ks int NAF: see TS 33.246 [43]).
- Otherwise, this is considered as a bootstrapping failure (incorrect MUK) and the USIM abandons the function. The status word '6A88' (Referenced data not found) is returned.

Otherwise, if the received MUK ID corresponds to the current MUK, the USIM uses the MUK value for MSK validation and derivation functions as described in TS 33.246 [43]. If the validation is unsuccessful, the status word '9862' (Authentication error, incorrect MAC) is returned and the USIM abandons the function.

After a successful MSK Update procedure the USIM stores the received MSK and updates EF_{MSK} as follows:

- If a record with the received Key Domain ID and Key Group part (i.e. Key Group part of the MSK ID) already exists, the 2nd -MSK ID and the associated TS shall be replaced by the 1st MSK ID and the associated TS. Then the new MSK ID is stored as the 1st MSK ID and the associated TS is reset. The number of stored MSK IDs and corresponding TS shall be set to '02'.
- If a record with the received Key Domain ID and Key Group part does not exist, the USIM uses an empty record to include those values. The received MSK ID is stored as the 1st MSK ID and the associated TS is reset. The 2nd MSK ID and the associated TS are set to 'FF FF'. The number of stored MSK IDs and corresponding TS shall be set to '01'.

NOTE: The policy of replacing Key Domain records when no more empty records are available in EF_{MSK} is HE specific. (e.g. delete Groups from visited Key Domains first)

Then, the USIM stores the Time Stamp field (retrieved from the MIKEY message) in its corresponding field under EF_{MUK} .

The USIM stores internally the last used MUK along with its MUK ID for further use. This MUK may be used beyond its GBA validity (i.e. after the derivation of a new Ks_int_NAF resulting from a new bootstrap procedure) to verify the integrity of the first MIKEY message in order to detect a synchronization failure of a push solicited pull procedure. This may occur if the last derived Ks_int_NAF did not reach the BM-SC.

NOTE: The MSK is not necessarily updated in the message, since a MSK transport message can be sent e.g. to update the Key Validity data.

Input:

- MIKEY message

Output:

- None

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

											R-Form-v7.1
			(CHANG	GE REC	UE	ST	•			K-i Olli-V7.1
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Other specs	æ	Y N	Othe	r core spec	cifications	¥					

How to create CRs using this form:

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Affected:

Other comments:

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:

Test specifications

O&M Specifications

- 1) Fill out the above form. The symbols above marked \$\mathbb{X}\$ 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 $\underline{\text{ftp://ftp.3gpp.org/specs/}}$ 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.

3.1 Definitions

For the purposes of the present document, the following definition applies.

ADM: access condition to an EF which is under the control of the authority which creates this file.

Allocation of these levels and the respective requirements for their fulfilment are the responsibility of the appropriate administrative authority

-The definition of access condition ADM does not preclude the administrative authority from using ALW, PIN, PIN2 and NEV if required.

A terminal does not need to evaluate access conditions indicated as ADM in the present document.

PIN/ADM: A terminal is required to evaluate the access condition and verify it in order to access the EF if the access condition is set to PIN or PIN2.

EHPLMN: represents the Equivalent HPLMNs for network selection purposes. The usage of EHPLMNs is defined in TS 23.122 [31].

[...]

Tdoc **≅** *C6-050422*

	CHANGI	E REQUEST		CR-Form-V7.1			
ж	31.130 CR 010	жrev - ж	Current version: 6.2.0	¥			
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器 X ME Radio Access Network Core Network							
Title:	Allign paragraph numbering b	petween 31.130 and	TS 102 241				
Source: ೫	CT6						
Work item code: ₩	T.E.I.		<i>Date:</i> # 28/04/2005				
	F Use one of the following categorie F (correction) A (corresponds to a correction) B (addition of feature), C (functional modification of D (editorial modification) Detailed explanations of the above be found in 3GPP TR 21.900.	on in an earlier release	Release: # Rel-6 Use one of the following release 1996 Ph2 (GSM Phase 2) Ph3 (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.	: 第 Make it easy to read 31.1	30 and TS 102 241 i	n parallel				
Summary of change	triggering and ref		agraph 6.0, rename 6.1 to a	Applet			
Consequences if not approved:	Difficult to understand the together.	two related specifica	ation TS 102 241 and 31.13	30			
Clauses affected:	¥ 4.0, 6, 6.0, 6.1						
Other specs affected:	Y N X Other core specific X Test specifications X O&M Specification	•					
Other comments:	黑						

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \$\mathbb{X}\$ 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 $\underline{\text{ftp://ftp.3gpp.org/specs/}}$ 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 Description

4.0 Overview

This API is an extension to the TS 102 241 [2] "UICC API for Java CardTM" and requires the implementation of this specification.

The classes and interfaces described in this specification inherit functionality from the classes and interfaces specified in the "UICC API for Java $Card^{TM}$ ".

The (U)SAT Framework described in this specification is an extension of the CAT Runtime Environment defined in TS 102 241 [2].

6 (U)SAT Framework

6.0 Overview

The (U)SIM toolkit API consists of the *uicc.usim.toolkit* package for toolkit features defined in TS 31.111[7] and TS 51.014[8], and is based on the *uicc.toolkit* package defined in TS 102 241[2].

6.1 Overview

The (U)SIM toolkit API consists of the *uicc.usim.toolkit* package for toolkit features defined in TS 31.111[7] and TS 51.014[8], and is based on the *uicc.toolkit* package defined in TS 102 241[2].

6.1 Applet triggering

See TS 102 241[2].

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	CR-Form-v7.1 CHANGE REQUEST								
ж	31.1	30 CR	012	жrev	- #	Current ver	sion: 6.2	2.0	*
For <u>HELP</u> on u	sing thi	s form, se	e bottom of	this page or	look at t	he pop-up tex	t over the	₩ sym	ibols.
Proposed change a	affects	: UICC	apps器 <mark>X</mark>	ME	Radio	Access Netwo	ork Co	ore Net	work
Title: ∺	Delet	e version	and author in	nfo from the	Java so	urce code			
Source: #	CT6								
Work item code: ₩	T.E.I.					Date: 8	28/04/2	005	
Category: 第	F A B C D	(correction (correspor (addition o (functional (editorial n d explanati	ds to a correc	ction in an ea		Ph2	REL-6 f the following (GSM Phate) (Release (Release (Release (Release (Release (Release (Release (Release (Release	ase 2) 1996) 1997) 1998) 1999) 4) 5)	ases:
Reason for change			est from the co		lelete all	the author an	d version i	nforma	ation
Summary of chang	ge:	<mark>elete @au</mark>	thor and @v	version infor	mation f	rom Java sou	rce code		
Consequences if not approved:		ead to mis e belongs	sunderstand	ding to which	n version	of the specifi	cation the	Java s	ource
Clauses affected:	# /	Annex_A	lava						
Other specs affected:	¥	X Othe	er core speci specification	ns	¥				
Other comments:	\mathfrak{H}								

How to create CRs using this form:

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

Package uicc.usim.access

* @author 3GPP T3

* @see uicc.toolkit.TerminalProfile

SIMConstants

```
* The <b>SIMConstants interface</b> hold all the constants defined in 3GPP TS 51.011
 * @version 2.0.0
* @author 3GPP TSG-T WG3
public interface SIMConstants {
       USIMConstants
 * The <b>USIMConstants interface</b> hold all the constants defined in 3GPP TS 31.102
* @author 3GPP TSG-T WG3
public interface USIMConstants {
package uicc.usim.toolkit
       ToolkitConstants
    <code>ToolkitConstantscode> encapsulates constants related to the USAT Toolkit applets.
* eversion 6.2.0
* @author 3GPP T3 API
public interface ToolkitConstants extends uicc.toolkit.ToolkitConstants {
   • USATEnvelopeHandler
 * The USATEnvelopeHandler interface contains basic methods to handle the <br/> <br/>b>SMS Envelope
 ^{\star} </b>data field. This interface will be used by the Toolkit applet in order to
 * have access to the current SMS Envelope information. No constructor is available
 * for the Toolkit applet.
* @author T3 SWG APT
 * @see
            uicc.toolkit.EnvelopeHandler
public interface USATEnvelopeHandler extends uicc.toolkit.EnvelopeHandler {
       USATEnvelopeHandlerSystem
 * The <code>USATEnvelopeHandlerSystem</code> class provides the means to retrieve an instance of
   an Object implementing the <code>USATEnvelopeHandler</code> interface.
<u>* @version 2.0.0</u>
<u>* @author 3GPP T3 API</u>
 * @see USATEnvelopeHandler
public final class USATEnvelopeHandlerSystem {
     USATTerminalProfile
 * The <code>USATTerminalProfile</code> interface contains constants for the Terminal Profile
according to TS 51.014 and to TS 31.111
```

 $\begin{tabular}{ll} \textbf{public interface} & \textbf{USATTerminalProfile} & \textbf{0} \\ \textbf{0} & \textbf{0} \\ \end{tabular}$

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

C6-050436

		CHANGE	REQ	UEST	-	C	CR-Form-v7.1
*	31.121 C	R <mark>073</mark>	жrev	- #	Current vers	5.1.0	#
For <u>HELP</u> on u	ısing this form,	see bottom of this	s page or	look at th	e pop-up text	over the ♯ syr	mbols.
Proposed change affects: UICC apps # ME X Radio Access Network Core Network Title: # CR 31.121 Rel-5: Introduction of SDN tests							
Title:	CR 31.121 F	Rel-5: Introduction	of SDN to	ests			
Source: #	CT6						
Work item code: ₩	TEI				Date: ℜ	29/04/2005	
Category: ₩	F (correct A (correct B (addition C (function D (editor) Detailed explai	following categoriestion) sponds to a correction of feature), and modification of a modification of the above PP TR 21.900.	on in an ear feature)		Ph2	Rel-6 the following rele (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6) (Release 7)	
Reason for change	e:	21 doesn't contain	SDN test	S			
Summary of chang	ge:	r SDN created					
Consequences if not approved:	第 Correct	support of SDN no	ot ensured				
Clauses affected:	第 <mark>New cla</mark>	use					
Other specs Affected:	X	other core specifications &M Specifications		*			
Other comments:	¥						

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \(\mathcal{H} \) 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 Subscription independent tests

[..]

x USIM service handling

x.z Service Dialling Numbers handling

x.z.1 Definition and applicability

The Service Dialling Numbers feature allows for the storage of numbers related to services offered by the network operator/service provider in the SIM/USIM (e.g. customer care). The user can use these telephone numbers to make outgoing calls, but the access for updating of the numbers shall be under the control of the operator.

This test applies to all terminals supporting SDN.

x.z.2 Conformance requirement

The terminal shall support the Service Dialling Numbers service as defined in 3GPP TS 31.102[4], subclauses 4.2.8 and 4.2.29.

Reference:

- 3GPP TS 31.102[4], subclauses 4.2.8, 4.2.29 and 4.2.31;
- 3GPP TS 22.101[11], subclause A.23.

x.z.3 Test purpose

- 1) To verify that the terminal takes into account the status of the Service Dialling Numbers service as indicated in EF_{UST}.
- 2) To verify that the user can use the Service Dialling Numbers to make outgoing calls.
- 3) To verify that the terminal is able to handle SDNs with an extended dialling number string.
- 4) To verify that the terminal is able to handle an empty alpha identifier in EF_{SDN}.
- 5) To verify that the terminal is able to handle an alpha identifier of maximum length in EF_{SDN}.

x.z.4 Method of test

x.z.4.1 Initial conditions

The terminal is connected to the USIM Simulator and the (U)SS.

The default USIM is used with the following exceptions:

The Service Dialling Numbers (SDN) shall be allocated and activated in the USIM Service Table.

<u>EF_{SDN}</u> shall be present with the following values:

EF_{SDN} (Service Dialling Numbers)

Logically:

 $\underline{6}$ records, 1 record shall be empty. Unless otherwise stated, the SDN records shall not use extendend BCD numbers/SSC strings. Access to update $\underline{EF_{SDN}}$ shall be granted by usage of ADM1 only.

Recor	d 1:			identifier	: 241 cl	naracters;						
		Length	identifier of BCD nd NPI:		XYZ0 GHIJI wxyz0 789ab 5;)1234567 KLMNOF)1234567	89abcdef PQRSTU 89ABCD Imnopqr	ghijklmno VWXYZ DEFGHIJI stuvwxyz	3CDEFG opqrstuvv 01234567 KLMNOI 01234567	vxyz0123 789abcde PQRSTU	3456789A fghijklmr	BCDEF opgrstuv
		Dialled CCI:	l number:		"2222 None;	3333";						
		Ext3:			"FF".	•						
Record 1:	<u>.</u>											
Coding: Hex	<u>B1</u> <u>48</u>	<u>B2</u> <u>6F</u>	<u>B3</u> <u>74</u>	<u>B4</u> <u>6C</u>	<u>B5</u> 69	<u>B6</u> <u>6E</u>	<u>B7</u> 65	<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>31</u>	<u>B11</u> 	
	<u>B241</u> <u>39</u>	<u>B242</u> <u>05</u>	<u>B243</u> <u>91</u>	<u>B244</u> <u>22</u>	B245 22	<u>B246</u> <u>33</u>	<u>B247</u> <u>33</u>	B248 FF	B249 FF	B250 FF	<u>B251</u> <u>FF</u>	B252 FF
	<u>B253</u> <u>FF</u>	B254 FF	<u>B255</u> <u>FF</u>									
Recor	d 2:	Alpha Length TON a	of alpha identifier of BCD nd NPI: I number:	number:	"Hotli 5; Telepl	ne002"; hony and 4455";		onal;				
Record 2:												
Coding: Hex	<u>B1</u> 48	<u>B2</u> <u>6F</u>	<u>B3</u> <u>74</u>	<u>B4</u> <u>6C</u>	<u>B5</u> 69	<u>B6</u> <u>6E</u>	<u>B7</u> 65	<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>32</u>	<u>B11</u> <u>FF</u>	
	<u>B241</u> <u>FF</u>	<u>B242</u> <u>05</u>	<u>B243</u> <u>91</u>	<u>B244</u> <u>44</u>	B245 55	<u>B246</u> <u>44</u>	<u>B247</u> <u>55</u>	<u>B248</u> <u>FF</u>	<u>B249</u> <u>FF</u>	<u>B250</u> <u>FF</u>	<u>B251</u> <u>FF</u>	<u>B252</u> <u>FF</u>
	B253 FF	B254 FF	B255 FF									
Recor	d 3:	Alpha Length TON a	of alpha identifier of BCD nd NPI: I number:	number:	"Hotli 11; Telepi	ne003"; hony and 4567890	Internation					

Record 3:

Record 1:

Coding: Hex <u>B1</u> <u>02</u> <u>B3</u> <u>10</u> <u>B5</u> <u>54</u>

Coding: Hex	<u>B1</u> <u>48</u>	<u>B2</u> <u>6F</u>	<u>B3</u> <u>74</u>	<u>B4</u> <u>6C</u>	<u>B5</u> 69	<u>B6</u> <u>6E</u>	<u>B7</u> 65	<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>33</u>	<u>B11</u> <u>FF</u>	
	<u>B241</u> <u>FF</u>	<u>B242</u> <u>0B</u>	<u>B243</u> <u>91</u>	<u>B244</u> <u>10</u>	<u>B245</u> <u>32</u>	<u>B246</u> <u>54</u>	<u>B247</u> <u>76</u>	<u>B248</u> <u>98</u>	<u>B249</u> <u>10</u>	<u>B250</u> <u>32</u>	<u>B251</u> <u>54</u>	<u>B252</u> <u>76</u>
	B253 98	<u>B254</u> <u>FF</u>	<u>B255</u> <u>01</u>									
Record		Alpha i Length TON a	of alpha dentifier of BCD nd NPI: number:	number:	: 241 ch empty 03; Teleph "007"; None; "FF".	iony and	Internatio	onal;				
Record 4: Coding:		B2	В3	B4	B5	B6	B7	B8	<u>B9</u>	<u>B10</u>	<u>B11</u>	<u></u>
Hex	B1 FF	B2 FF	B3 FF	B4 FF	<u>B5</u> <u>FF</u>	<u>B6</u> <u>FF</u>	B7 FF	B8 FF	<u>FF</u>	<u>FF</u>	<u>FF</u>	***
	<u>B241</u> <u>FF</u>	<u>B242</u> <u>03</u>	<u>B243</u> <u>91</u>	<u>B244</u> <u>00</u>	<u>B245</u> <u>F7</u>	<u>B246</u> <u>FF</u>	<u>B247</u> <u>FF</u>	<u>B248</u> <u>FF</u>	<u>B249</u> <u>FF</u>	<u>B250</u> <u>FF</u>	<u>B251</u> <u>FF</u>	<u>B252</u> <u>FF</u>
	<u>B253</u> <u>FF</u>	B254 FF	<u>B255</u> <u>FF</u>									
Record	d 5:	Alpha i Length TON a Dialled CCI:	of alpha dentifier: of BCD nd NPI: number:	number:	"008"; None;	iony and	Internatio	onal;				
Record 5:		Ext3:			"FF".							
Coding: Hex	<u>B1</u> <u>FF</u>	<u>B2</u> FF	<u>B3</u> <u>FF</u>	<u>B4</u> <u>FF</u>	<u>B5</u> FF	B6 FF	<u>B7</u> FF	<u>B8</u> <u>FF</u>	<u>B9</u> FF	<u>B10</u> <u>FF</u>	<u>B11</u> <u>FF</u>	
Coding:	<u>B1</u>	B2 FF B242 03	B3 FF B243 91	B4 FF B244 00	B5 FF B245 F8	B6 FF B246 FF	B7 FF B247 FF	B8 FF B248 FF	B9 FF B249 FF	B10 FF B250 FF	B11 FF B251 FF	
Coding:	B1 FF B241	<u>FF</u> <u>B242</u>	<u>FF</u> <u>B243</u>	<u>FF</u> <u>B244</u>	<u>FF</u> <u>B245</u>	<u>FF</u> <u>B246</u>	<u>FF</u> <u>B247</u>	<u>FF</u> <u>B248</u>	<u>FF</u> <u>B249</u>	<u>FF</u> <u>B250</u>	<u>FF</u> <u>B251</u>	 <u>B252</u>
Coding:	B1 FF B241 FF B253 FF	FF B242 03 B254 FF	E5 B243 91 B255 FF	FF B244 00	<u>FF</u> <u>B245</u> <u>F8</u>	<u>FF</u> <u>B246</u> <u>FF</u>	FF B247 FF	FF B248 FF	<u>B249</u> <u>FF</u>	FF B250 FF	FF B251 FF	 <u>B252</u>

B7 FF B9 FF <u>B10</u> <u>B11</u> <u>B12</u> <u>FF</u> <u>FF</u> <u>FF</u>

B13 FF

x.z.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall use an MMI dependent procedure to set up a call to the dialling number associated with the alpha identifier

"Hotline001122334455667788ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789abcdefghijklmnopqrstuvwxyz0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789abcdefghijklmnopqrstuvwxyz0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789abcdefghijklmnopqrstuvwxyz0123456789" in record 1 of EF_{SDN}.

- c) The user shall end the call.
- d) The user shall use an MMI dependent procedure to set up a call to the dialling number associated with the "Hotline003" in record 3 of EF_{SDN}.
- e) The user shall end the call.
- f) The user shall use an MMI dependent procedure to select and to set up a call to the dialling number "+007" stored in record 3 of EF_{SDN}.
- g) The user shall end the call and switch the terminal off.

x.z.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application and shall have read the status of the SDN service in EF_{UST}.
- 2) After step b) the terminal shall have read record 1 of EF_{SDN} and a call to "+22223333" shall have been established.
- 3) After step c) the call shall have been terminated.
- 4) After step d) the terminal shall have read record 3 of EF_{SDN} and record 1 of EF_{EXT1} and a call to "+01234567890123456789012345" shall have been established.
- 5) After step e) the call shall have been terminated.
- 6) After step f) the terminal shall have read record 4 of EF_{SDN} and a call to "+007" shall have been established.

3GPP TSG-CT6 Meeting #35 Cancum, Mexico, 26th – 30th April 2005

Tdoc **x** C6-050443

CR-Form-v7.1

	(CHANGE	REQUE	ST			
*	31.111 CR	143	rev -	₩ Cı	urrent versi	6.5.0	¥
For <u>HELP</u> on	using this form, see	bottom of this p	page or look	at the p	op-up text	over the	mbols.
Proposed change affects: UICC apps X ME X Radio Access Network Core Network							
Title:	Correction to in	complete refere	nces				
Source:	₩ CT6						
Work item code:	₩ TEI-6				Date: ₩	28/04/2005	
Category:	B (addition of	ds to a correction feature), modification of feature) of the above of	nture)	elease)	Use <u>one</u> of t Ph2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	Rel-6 the following rel (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6) (Release 7)	
Reason for chang	ge: ೫ When previ	ous CRs were i	mplemented	, the ref	erences we	ere not update	d
Summary of chai	nge: Replacing	all xx's and w's	with correct	referenc	es and cla	use numbers	
Consequences if not approved:	第 Incomplete a	and misleading	document.				
Clauses affected	:	2, 8.74 & 8.76					
Other specs affected:	Y N 器 Other Test :	core specificati specifications Specifications	ons				
Other comments	: X						

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \(\mathcal{H} \) 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)	3) With "track changes" disabled, paste the entire CR form (the clause containing the first piece of changed text. Delethe change request.	use CTRL-A to select it) into the specification just in front of the those parts of the specification which are not relevant to

6.6.15 PROVIDE LOCAL INFORMATION

Description	Clause	M/O/C	Min	Length
Proactive UICC command Tag	9.2	М	Y	1
Length (A+B+C)	-	М	Y	1 or 2
Command details	8.6	М	Y	Α
Device Identities	8.7	M	Y	В
UTRAN Measurement Qualifier	8. xx 73	С	Y	С

UTRAN Measurement Qualifier: This data object applies when the Command Qualifier in Command details is set to indicate "Network Measurement results". It shall be included to indicate to the ME that "Network Measurement Results for a UTRAN" is required. It shall be excluded to indicate to the ME that "Network Measurement Results for a GERAN" is required. It shall only be included/excluded if the ME has indicated that it supports the implied access technology via the respective Terminal Profile setting.

7.7 MMS Transfer Status

7.7.1 Procedure

If the service "MMS transfer" is allocated and activated in the USIM Service Table (see 3GPP TS 31.102 [14]), then the ME shall follow the procedure below (if class "j" is supported).

- when the ME is asked by the UICC to submit a multimedia message, and after the message has been submitted by the ME to the network, the ME receives a "MM1_submit.RES" message (see 3GPP TS 23.140 [40]) from the network. Then the ME shall send this "MM1_submit.RES" message to the UICC using the ENVELOPE (MMS Transfer Status) immediately upon it's reception;
- when the ME is asked by the UICC to retrieve a multimedia message, then the ME shall store the "MM1_retrieve.RES" message (see 3GPP TS 23.140 [40]) in the UICC upon it's reception. Upon the completion of the storage, the ME shall notify it to the UICC using the ENVELOPE (MMS Transfer Status). The ME shall neither display the message nor alert the user;
- if the UICC responds with '93 00', the ME shall consider that the ENVELOPE (MMS Transfer Status) has not been successfully transferred to the UICC. The ME may retry the same command.

7.7.2 Structure of ENVELOPE (MMS Transfer Status)

Direction: ME to UICC.

The command header is specified in 3GPP TS 31.101 [13].

Command parameters/data.

Description	Clause	M/O/C	Min	Length
MMS data download tag	9.1	M	Υ	1
Length (A+B+C+D)	-	M	Y	1
Device identities	8.7	M	Y	Α
MMS Transfer File	8.18	M	Y	В
Multimedia Message Identifier	8. xx <u>75</u>	С	N	С
Multimedia Message Transfer Status	8. ₩ <u>76</u>	С	N	D

Device identities: the terminal shall set the device identities to:

source: network; destination: UICC.

MMS Transfer File: is the path of the MMS Reception File or the MMS Submission File.

Multimedia Message Identifier: is the identifier of the Multimedia Message within the MMS Transfer File. This Identifier is mandatory in case the MMS Transfer File is able to store several MMs

Multimedia Message Transfer Status: this data object shall contain:

either the status of the submission of a Multimedia Message. It consists of the "MM1_submit.RES" message described in TS 23.140 [40].

Or shall not be present in the case of a retrieval.

NOTE: The UICC is able to identify if the envelope corresponds to a previous submit or retrieve MMS by using the MMS Tranfer File and the Multimedia Message Identifier that shall be the same between both commands.

Response parameters/data: if a request for a delivery report is included in the "MM1_retrieve.RES" message (see 3GPP TS 23.140 [40]), Response parameter/data may contain this delivery report. It consists in the "MM1_acknowledgement.REQ" message described in TS 23.140 [40].

8.74 Multimedia Message Reference

This clause applies if class "j" is supported.

Byte(s)	Description	Length
1	Multimedia Message Reference tag	1
2	Length (X)	1
3	Multimedia Message Reference	Χ

Multimedia Message Reference:

Contents:

This contains Multimedia Message Reference used to retrieve the MM from the network.

Coding:

The Multimedia Message Reference is the "MM1_retrieve.REQ", see TS 23.140 [***40] for further details.

8.75 Multimedia Message Identifier

This clause applies if class "j" is supported.

Byte(s)	Description	Length
1	Multimedia Message Identifier tag	1
2	Length (X)	1
3	Multimedia Message Identifier	X

Identifier of Multimedia Message:

Contents:

This contains Multimedia Message Identifier to be used to retrieve a Multimedia Message. This identifier is mandatory in case the MMS Reception or Submission file can store several MMs.

Coding:

The Multimedia Message identifier is coded in hexadecimal.

8.76 Multimedia Message Transfer status

This clause applies if class "j" is supported.

Byte(s)	Description	Length
1	Multimedia Message Transfer Status tag	1
2	Length (X)	1
3 to 3+X	Multimedia Message Transfer Status	X

Contents:

The Multimedia Message Transfer Status is response from the network to a multimedia message submission request.

Coding:

See "MM1_submit.RES" message described in TS 23.140 [xx40].

	CHANGE REQUEST													
*		31	.130	CR	011	жr	ev	-	Ħ	Current ve	ersion:	7.0.0	¥	
For <u>H</u>	IELP on	using	this for	m, see	bottom o	f this pag	ge or l	look a	at the	e pop-up te	xt ove	r the	mbols.	
Propose	Proposed change affects: UICC apps# X ME Radio Access Network Core Network													
Title:)	€ Alli	gn par	agraph	numberir	ng betwe	en 31	.130	and	TS 102 24	1			
Source:	9	€ CT6												
Work ite	m code: 🖁	€ T.E	i.l.							Date:	<mark>第 29</mark>	/04/2005		
Category	<i>y:</i>	Deta	F (corr A (corr B (add C (fund D (edit iled exp	rection) respond lition of totional model of totional of tot	wing categors to a corresponding to a correspondification of the a R 21.900.	rection in a	re)		lease	Ph2	of the for (GS) (Rela (Rela (Rela (Rela (Rela (Rela (Rela	el-7 ollowing re M Phase 2, ease 1996, ease 1998, ease 1999, ease 4) ease 5) ease 7))))	
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Summar	y of chan	ge: ₩	•	trigge	ering and	refer to	TS 10	2 24	1	agraph 6.0 paragraph		ne 6.1 to	Applet	
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How to create CRs using this form:

- 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 $\underline{\text{ftp://ftp.3gpp.org/specs/}}$ 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 Description

4.0 Overview

This API is an extension to the TS 102 241 [2] "UICC API for Java CardTM" and requires the implementation of this specification.

The classes and interfaces described in this specification inherit functionality from the classes and interfaces specified in the "UICC API for Java $Card^{TM}$ ".

The (U)SAT Framework described in this specification is an extension of the CAT Runtime Environment defined in TS 102 241 [2].

6 (U)SAT Framework

6.0 Overview

The (U)SIM toolkit API consists of the *uicc.usim.toolkit* package for toolkit features defined in TS 31.111[7] and TS 51.014[8], and is based on the *uicc.toolkit* package defined in TS 102 241[2].

6.1 Overview

The (U)SIM toolkit API consists of the *uicc.usim.toolkit* package for toolkit features defined in TS 31.111[7] and TS 51.014[8], and is based on the *uicc.toolkit* package defined in TS 102 241[2].

6.1 Applet triggering

See TS 102 241[2].

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CR-Form-v7.1 CHANGE REQUEST							
*	31.130 CR 013 #rev - #	Current version: 7.0.0 ^ℜ					
For <u>HELP</u> on us	sing this form, see bottom of this page or look at th	ne pop-up text over the ℋ symbols.					
Proposed change a	Proposed change affects: UICC apps X ME Radio Access Network Core Network						
Title:	Delete version and author info from the Java sou	rce code					
Source: #	CT6						
Work item code: ₩	T.E.I.	<i>Date:</i> ## 29/04/2005					
Category: 第	Wise one of the following categories: F (correction) A (corresponds to a correction in an earlier released (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.	Release: ## REL-7 Use one of the following releases: Ph2 (GSM Phase 2) ## 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	: # Upon request from the T3 plenary delete all t from the Java source code	he author and version information					
Summary of chang	e: Belete @author and @version information from the control of	om Java source code					
Consequences if not approved:	# Lead to missunderstanding to which version file belongs	of the specification the Java source					
Clauses affected:	策 Annex_A_Java						
Other specs affected:	Y N X Other core specifications X Test specifications O&M Specifications						
Other comments:	×						

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \(\mathcal{X} \) 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)	3) With "track changes" disabled, paste the entire CR form (the clause containing the first piece of changed text. Dele the change request.	use CTRL-A to select it) into the specification just in front of te those parts of the specification which are not relevant to

Package uicc.usim.access

* @author 3GPP T3

* @see uicc.toolkit.TerminalProfile

SIMConstants

```
* The <b>SIMConstants interface</b> hold all the constants defined in 3GPP TS 51.011
 * @version 2.0.0
* @author 3GPP TSG-T WG3
public interface SIMConstants {
       USIMConstants
 * The <b>USIMConstants interface</b> hold all the constants defined in 3GPP TS 31.102
* @author 3GPP TSG-T WG3
public interface USIMConstants {
package uicc.usim.toolkit
       ToolkitConstants
    <code>ToolkitConstantscode> encapsulates constants related to the USAT Toolkit applets.
* eversion 6.2.0
* @author 3GPP T3 API
public interface ToolkitConstants extends uicc.toolkit.ToolkitConstants {
   • USATEnvelopeHandler
 * The USATEnvelopeHandler interface contains basic methods to handle the <br/> <br/>b>SMS Envelope
 ^{\star} </b>data field. This interface will be used by the Toolkit applet in order to
 * have access to the current SMS Envelope information. No constructor is available
 * for the Toolkit applet.
* @author T3 SWG APT
 * @see
            uicc.toolkit.EnvelopeHandler
public interface USATEnvelopeHandler extends uicc.toolkit.EnvelopeHandler {
       USATEnvelopeHandlerSystem
 * The <code>USATEnvelopeHandlerSystem</code> class provides the means to retrieve an instance of
   an Object implementing the <code>USATEnvelopeHandler</code> interface.
<u>* @version 2.0.0</u>
<u>* @author 3GPP T3 API</u>
 * @see USATEnvelopeHandler
public final class USATEnvelopeHandlerSystem {
     USATTerminalProfile
 * The <code>USATTerminalProfile</code> interface contains constants for the Terminal Profile
according to TS 51.014 and to TS 31.111
```

 $\begin{tabular}{ll} \textbf{public interface} & \textbf{USATTerminalProfile} & \textbf{0} \\ \textbf{0} & \textbf{0} \\ \end{tabular}$

Cancun, Mexico, 25-29 April 2005 CR-Form-v7.1					
CHANGE REQUEST					
*	3 <mark>1.116</mark> CR 010	∉rev -	rent version: 6.7.0		
For <u>HELP</u> on u	ng this form, see bottom of this p	page or look at the pop	o-up text over the ૠ symbols.		
Proposed change	iects: UICC apps器 X	ME Radio Access	s Network Core Network		
Title: ж	ntroduction of an explicit descri	ption of the ISIM RFM	mechanism		
Source: #	CT6				
Work item code: 第	TEI		Date: 第 <mark>28/04/2005</mark>		
Category: Ж	Following categories:		ease: Rel-6 se one of the following releases:		
	F (correction)A (corresponds to a correction)		2 (GSM Phase 2) R96 (Release 1996)		
	B (addition of feature),C (functional modification of feature)	ature)	R97 (Release 1997) R98 (Release 1998)		
	D (editorial modification) etailed explanations of the above c	ategories can	R99 (Release 1999) Rel-4 (Release 4)		
	e found in 3GPP <u>TR 21.900</u> .		Rel-5 (Release 5) Rel-6 (Release 6)		
			Rel-7 (Release 7)		
Reason for change			all be possible to update ISIM		
	specific information via the				
	Furthermore Annex A of TS Download or CAT applicati perform ISIM Remote File	ons", reflects the fact t	hat it should be possible to		
			DF Remote File Management as		
	defined in TS 102.226, it is confirm the 3GPP working				
Summary of chang	器 Include explicit descriptions	s of the ISIM RFM med	chanism		
Consequences if not approved:	# The reader of TS 31.116 m to the ISIM RFM and may of		osence of an explicit reference only limited to USIM/SIM.		
Clauses affected:	光 1, 2, 4.1, 4.2, 5.x (new)				
Other specs	Y N X Other core specifications	ions #			
	X O&M Specifications				
Other comments:	x				

How to create CRs using this form:

- 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.

1 Scope

The present document defines the remote management of files and applets on the SIM/USIM/ISIM.

It describes the APDU format for remote management.

Furthermore the document specifies:

- a set of commands coded according to this APDU structure and used in the remote file management on the SIM/USIM/ISIM specified in 3GPP TS 51.011 [1], 3GPP TS 31.101 [2], and 3GPP TS 31.102 [3], 3GPP TS 31.103 [xx].
- a set of commands coded according to this APDU structure and used in the remote applet management on the SIM/USIM. This is based on TS 102 226 [4].

The remote APDU structure for SIM/USIM/ISIM applications shall comply with the one defined in TS 102 226 [4]. The present document only contains additional requirements or explicit limitations for SIM/USIM/ISIM applications.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.

application".

• For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1]	3GPP TS 51.011 Release 4: "Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface".
[2]	3GPP TS 31.101: "UICC-Terminal Interface; Physical and Logical Characteristics".
[3]	3GPP TS 31.102: "Characteristics of the USIM Application".
[4]	ETSI TS 102 226 Release 6: "Smart Cards; Remote APDU structure for UICC based applications".
[5]	ISO/IEC 7816-4 (1995): "Information technology - Identification cards - Integrated circuit(s) cards with contacts - Part 4: Interindustry commands for interchange".
[xx]	3GPP TS 31.103: "Characteristics of the IP Multimedia Services Identity Module (ISIM)

4 Remote APDU Format

4.1 Remote command coding

The SIM/USIM/ISIM Remote command coding shall comply with the Remote command coding of TS 102 226 [4].

4.2 Response coding

The SIM/USIM/ISIM Response coding shall comply with the Response coding of TS 102 226 [4], added features are defined below.

5.x ISIM Remote File Management

ISIM Remote File Management shall comply with TS 102 226 [4].

The standardised commands are listed in TS 102 226 [4].

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

C6-050452

	CHANGE REQUEST											
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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 Phone book procedures

[..]

8.1.2 Update of the Phonebook Synchronisation Counter (PSC)

[..]

8.1.x Phonebook selection

8.1.x.1 Definition and applicability

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.

This test applies to all terminals supporting both local and global phonebook.

8.1.x.2 Conformance requirement

The terminal shall support the global and the application specific phonebooks as defined in 3GPP TS 31.102[4], subclause 4.4.2.

Reference:

• 3GPP TS 31.102[4], subclause 4.4.2.

8.1.x.3 Test purpose

- 1) To verify that the terminal offers a possibility to select which phonebook the user would like to select if both, the global and the local phonebook, co-exist.
- 2) To verify that the data contained in the local phonebook can be read and updated correctly.
- 3) To verify that the data contained in the global phonebook can be read and updated correctly.

8.1.x.4 Method of test

8.1.x.4.1 Initial conditions

The terminal is connected to the USIM Simulator.

The default USIM is used with the following exceptions:

The local and the global phonebook are both present.

The local phonebook shall contain:

EF_{PBR} (Phonebook reference file)

<u>Logically: Only EF_{ADN} and EF_{EXT1} are present in the local phonebook.</u>

EF_{ADN} (Abbreviated dialling numbers)

Logically: 10 records, each record non-empty and unique.

Record 4:	Length of alpha identifier:	32 characters;
	Alpha identifier:	"Contact004";
	Length of BCD number:	"03";
	TON and NPI:	Telephony and International;
	Dialled number:	004;
	CCI:	None;
	Ext1:	None.

Record 4:

Coding: Hex									
	<u>B34</u> 91	<u>B35</u> 00	<u>B37</u> FF	<u>B39</u> FF	<u></u>	<u>B46</u> FF			

Record 5:	Length of alpha identifier:	32 characters;
	Alpha identifier:	"Contact005";
	Length of BCD number:	"03";
	TON and NPI:	Telephony and International;
	Dialled number:	1234;
	CCI:	None;
	Ext1:	None.

Record 5:

Coding: Hex		<u>B2</u> <u>6F</u>	<u>B3</u> <u>6E</u>	<u>B4</u> <u>74</u>		<u>B6</u> <u>63</u>	<u>B7</u> <u>74</u>	<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>35</u>	<u>B11</u> <u>FF</u>	<u></u>	<u>B32</u> <u>FF</u>	<u>B33</u> <u>03</u>
	<u>B34</u> 91	<u>B35</u> 21	<u>B36</u> 43	<u>B37</u> FF	<u>B38</u> FF	<u>B39</u> FF	<u></u>	<u>B46</u> FF						

The global phonebook shall contain:

$\underline{EF_{PBR}} \ \underline{(Phonebook\ reference\ file)}$

<u>Logically: Only EF_{ADN} is present in the global phonebook.</u>

EF_{ADN} (Abbreviated dialling numbers)

Logically: 8 records, records 3 and 6 empty, each non-empty record unique.

Record 1:	Length of alpha identifier:	32 characters;
	Alpha identifier:	"Contact001";
	Length of BCD number:	"03";
	TON and NPI:	Telephony and International;
	Dialled number:	001;
	CCI:	None;
	Ext1:	None.

Record 1:

Coding: Hex	<u>B1</u> 43	<u>B2</u> 6F	<u>B3</u> 6E	<u>B4</u> 74	<u>B5</u> 61	<u>B6</u> 63	<u>B7</u> 74	<u>B8</u> <u>30</u>	<u>B9</u> 30	<u>B10</u> <u>31</u>	<u>B11</u> <u>FF</u>	 	<u>B32</u> <u>FF</u>	<u>B33</u> <u>03</u>
	<u>B34</u> <u>91</u>	<u>B35</u> <u>00</u>	<u>B36</u> <u>F1</u>	<u>B37</u> <u>FF</u>	<u>B38</u> <u>FF</u>	<u>B39</u> <u>FF</u>	<u></u>	<u>B46</u> <u>FF</u>						
Record	2:		th of alp a identif		tifier:	32 char								
			th of BC		ber:	"03";								
-			and NP ed numb			Telepho 002;	ony and	Interna	tional;					
		CCI:	ou munn	<i>J</i> C1.		None;								
		Ext1:				None.								
Record 2:														
Coding: Hex	<u>B1</u> <u>43</u>	<u>B2</u> 6F	<u>B3</u> <u>6E</u>	<u>B4</u> <u>74</u>	<u>B5</u> <u>61</u>	<u>B6</u> <u>63</u>	<u>B7</u> <u>74</u>	<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>32</u>	<u>B11</u> <u>FF</u>		<u>B32</u> <u>FF</u>	B33 03
	<u>B34</u> <u>91</u>	<u>B35</u> <u>00</u>	<u>B36</u> <u>F2</u>	<u>B37</u> <u>FF</u>	<u>B38</u> <u>FF</u>	<u>B39</u> <u>FF</u>	 	<u>B46</u> <u>FF</u>						
Record	4:		th of alp a identif		tifier:	32 char								
			th of BC		ber:	"03";	<u>ct004</u> ,							
			and NP				ony and	Interna	tional;					
			ed numb	oer:		0041;								
		CCI:				None;								
		Ext1:				None.								
Record 4:														
Coding: Hex	<u>B1</u> <u>43</u>	<u>B2</u> 6F	<u>B3</u> <u>6E</u>	<u>B4</u> <u>74</u>	<u>B5</u> 61	<u>B6</u> <u>63</u>	<u>B7</u> 74	<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>34</u>	<u>B11</u> <u>FF</u>	***	<u>B32</u> <u>FF</u>	<u>B33</u> <u>03</u>
	<u>B34</u> <u>91</u>	<u>B35</u> <u>00</u>	<u>B36</u> <u>14</u>	<u>B37</u> <u>FF</u>	<u>B38</u> <u>FF</u>	<u>B39</u> <u>FF</u>	 	<u>B46</u> <u>FF</u>						
Record	5:		th of alp		tifier:	32 char								
			th of BC		ber:	"03";								
			and NP				ony and	Interna	tional;					
			ed numb	oer:		1234;								
-		CCI: Ext1:				None; None.								
Record 5:		2				1,01101								
Coding: Hex	<u>B1</u> <u>43</u>	<u>B2</u> <u>6F</u>	<u>B3</u> <u>6E</u>	<u>B4</u> <u>74</u>	<u>B5</u> 61	<u>B6</u> <u>63</u>	<u>B7</u> <u>74</u>	<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>35</u>	<u>B11</u> <u>FF</u>		<u>B32</u> <u>FF</u>	<u>B33</u> <u>03</u>
	<u>B34</u> <u>91</u>	<u>B35</u> <u>21</u>	<u>B36</u> <u>43</u>	<u>B37</u> <u>FF</u>	<u>B38</u> <u>FF</u>	<u>B39</u> <u>FF</u>	<u></u>	<u>B46</u> <u>FF</u>						
Record	7:	Leng	th of alr	oha iden	tifier:	32 char	acters:							
<u>Kecoru</u>			a identif			"Conta								
		Leng	th of BC	CD num	ber:	"03";								
			and NP				ony and	Interna	tional;					
		Dialle CCI:	ed numb	oer:		007; None;								
-		CCI.				TAOHE,								

		Ext1:				None.							
Record 7:													
Coding: Hex	<u>B1</u> <u>43</u>	<u>B2</u> <u>6F</u>	<u>B3</u> <u>6E</u>	<u>B4</u> <u>74</u>	<u>B5</u> <u>61</u>	<u>B6</u> 63	<u>B7</u> <u>74</u>	<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>37</u>	<u>B11</u> <u>FF</u>	 <u>B32</u> <u>FF</u>	<u>B33</u> <u>03</u>
	<u>B34</u> <u>91</u>	<u>B35</u> <u>00</u>	<u>B36</u> <u>F7</u>	<u>B37</u> <u>FF</u>	<u>B38</u> <u>FF</u>	<u>B39</u> <u>FF</u>	 	<u>B46</u> <u>FF</u>					
Record	8:	Alpha	a identif				ct008";						
-			and NP	CD num T	ber:	"03"; Telepho	ony and	l Interna	tional:				
			ed numb			008;	ony unc	THEOTHE	tionar,				
		CCI:				None;							
		Ext1:				None.							
Record 8:													
Coding: Hex	<u>B1</u> <u>43</u>	<u>B2</u> 6F	<u>B3</u> <u>6E</u>	<u>B4</u> <u>74</u>	<u>B5</u> 61	<u>B6</u> <u>63</u>	<u>B7</u> <u>74</u>	<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>38</u>	<u>B11</u> <u>FF</u>	 <u>B32</u> <u>FF</u>	<u>B33</u> <u>03</u>
	<u>B34</u> 91	<u>B35</u> <u>00</u>	<u>B36</u> <u>F8</u>	<u>B37</u> <u>FF</u>	<u>B38</u> <u>FF</u>	<u>B39</u> <u>FF</u>	<u></u>	<u>B46</u> <u>FF</u>					

8.1.x.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall use a MMI dependent procedure to select the global phonebook.
- c) The global phonebook record no. 5 (alpha identifier: "Contact005") and the associacted dialling number shall be read by the user.
- d) The dialling number of the global phonebook record no. 5 (alpha identifier: "Contact005") shall be set to "+1122330".
- e) A new entry with the values "Contact006" as alpha identifier and "+9876543210" as associated dialling number shall be added to the global phonebook.
- f) The user shall use a MMI dependent procedure to select the local phonebook.
- g) The local phonebook record no. 5 (alpha identifier: "Contact005") and the associacted dialling number shall be read by the user.
- h) The dialling number of the local phonebook record no. 5 (alpha identifier: "Contact005") shall be set to "+11223345".
- i) The user shall try to add a new entry with the values "Contact007" as alpha identifier and "+007" as associated dialling number to the local phonebook.
- j) The user shall delete the entry "Contact004" from the local phonebook.
- k) The user shall add a new entry with the values "Contact007" as alpha identifier and "+007" as associated dialling number to the local phonebook.
- 1) The user shall use a MMI dependent procedure to select the global phonebook.
- m) The user shall delete the entry "Contact007" from the global phonebook.
- n) The terminal is switched off.

8.1.x.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application, shall have read the status of the local Phonebook in EF_{UST}.
- 2) After step b) the terminal shall have selected the global phonebook and shall have read EF_{PBR} in the global phonebook.
- 3) After step c) the terminal shall have read record no. 5 of EF_{ADN} of the global phonebook and shall have presented the alpha identifier "Contact005" and the dialling number "+1234" to the user.
- 4) After step d) EF_{ADN} in the global phonebook shall contain a record with the alpha identifier "Contact005" with the new dialling number "+1122330" and the terminal shall have given an indication to the user that the phonebook update has been performed successfully.
- 5) After step e) a new record shall have been added to EF_{ADN} in the global phonebook with the alpha identifier "Contact006" and the dialling number string "+9876543210".
- 6) After step f) the terminal shall have selected the local phonebook and shall have read EF_{PBR} in the local phonebook.
- 7) After step g) the terminal shall have read record no. 5 of EF_{ADN} of the local phonebook and shall have presented the alpha identifier "Contact005" and the dialling number "+1234" to the user.
- 8) After step h) EF_{ADN} in the local phonebook shall contain the a record with the alpha identifier "Conatct005" and with new dialling number "+11223345" and the terminal shall have given an indication to the user that the phonebook update has been performed successfully.
- 9) After step i) the terminal shall have given an indication that update of the local phonebook can't be performed. EF_{ADN} shall have not been updated.
- 10) After step j) the record no. 4 in the local phonebook shall be empty and the terminal shall have indicated that the deletion of the phonebook entry was performed successfully.
- 11) After step k) a new record shall have been added to EF_{ADN} in the local phonebook with the alpha identifier "Contact007" and the dialling number string "+007"
- 12) After step l) the terminal shall have selected the global phonebook and shall have read EF_{PBR} in the global phonebook.
- 13) After step m) the record no. 7 in the global phonebook shall be empty and the terminal shall have indicated that the deletion of the phonebook entry was performed successfully.

8.1.y Local Phonebook handling

8.1.y.1 Definition and applicability

The UICC may contain a global phonebook, or application specific phonebooks, or both in parallel.

This test applies to all terminals supporting the local phonebook.

8.1.y.2 Conformance requirement

The terminal shall support the local phonebook as defined in 3GPP TS 31.102[4], subclause 4.4.2.

Reference:

• 3GPP TS 31.102[4], subclause 4.4.2.

8.1.y.3 Test purpose

1) To verify that the terminal supports the local phonebook without existence of the global phonebook.

2) To verify that the data contained in the local phonebook can be read and updated correctly.

8.1.y.4 Method of test

8.1.y 4.1 Initial conditions

The terminal is connected to the USIM Simulator.

The default USIM is used with the following exceptions:

The local phonebook is present, the global phonebook is not present.

The local phonebook shall contain:

EF_{PBR} (Phonebook reference file)

Logically: Only EF_{ADN} and EF_{EXT1} are present in the local phonebook.

EF_{ADN} (Abbreviated dialling numbers)

Logically: 10 records, each record non-empty and unique.

Record 4:	Length of alpha identifier:	32 characters;
	Alpha identifier:	"Contact004";
	Length of BCD number:	"03";
	TON and NPI:	Telephony and International;
	Dialled number:	004;
	CCI:	None;
	Ext1:	None.

Record 4:

Coding: Hex	<u>B1</u> <u>43</u>	<u>B2</u> <u>6F</u>	<u>B3</u> <u>6E</u>	<u>B4</u> <u>74</u>	<u>B6</u> <u>63</u>	<u>B7</u> <u>74</u>		<u>B9</u> <u>30</u>	<u>B11</u> <u>FF</u>	<u></u>	<u>B32</u> <u>FF</u>	<u>B33</u> <u>03</u>
	<u>B34</u> <u>91</u>	<u>B35</u> 00	<u>B36</u> <u>F4</u>	<u>B37</u> <u>FF</u>	<u>B39</u> <u>FF</u>	<u></u>	<u>B46</u> <u>FF</u>					

Record 5:	Length of alpha identifier:	32 characters;
	Alpha identifier:	"Contact005";
	Length of BCD number:	<u>"03";</u>
	TON and NPI:	Telephony and International;
	Dialled number:	1234;
	CCI:	None;
	Ext1:	None.

Record 5:

Coding: Hex	<u>B1</u> <u>43</u>	<u>B2</u> 6F	<u>B3</u> <u>6E</u>	<u>B4</u> <u>74</u>	<u>B6</u> 63	<u>B7</u> <u>74</u>	<u>B8</u> <u>30</u>	<u>B9</u> <u>30</u>	<u>B10</u> <u>35</u>	<u>B11</u> <u>FF</u>	<u></u>	<u>B32</u> <u>FF</u>	<u>B33</u> <u>03</u>
	<u>B34</u> <u>91</u>	<u>B35</u> <u>21</u>	<u>B36</u> <u>43</u>	<u>B37</u> <u>FF</u>	<u>B39</u> <u>FF</u>	<u></u>	<u>B46</u> <u>FF</u>						

8.1.y 4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall use a MMI dependent procedure to select the phonebook on the USIM (local phonebook).
- c) The local phonebook record no. 5 (alpha identifier: "Contact005") and the associacted dialling number shall be read by the user.

- <u>d)</u> The dialling number of the local phonebook record no. 5 (alpha identifier: "Contact005") shall be set to "+11223345" and the alpha identifier shall be changed to "Contact8901234567890123".
- e) The user shall try to add a new entry with the values "Contact007" as alpha identifier and "+007" as associated dialling number to the local phonebook.
- f) The user shall delete the entry "Contact004" from the local phonebook.
- g) The user shall add a new entry with the values "Contact007" as alpha identifier and "+007" as associated dialling number to the local phonebook.
- h) The terminal is switched off.

8.1.y.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application, shall have read the status of the local Phonebook in EF_{UST}.
- 2) After step b) the terminal shall have selected the local phonebook and shall have read EF_{PBR} in the local phonebook.
- 3) After step c) the terminal shall have read record no. 5 of EF_{ADN} of the local phonebook and shall have presented the alpha identifier "Contact005" and the dialling number "+1234" to the user.
- 4) After step d) EF_{ADN} in the local phonebook shall contain a record with the new alpha identifier

 "Contact890123456789012" and the dialling number "+11223345" and the terminal shall have given an indication to the user that the phonebook update has been performed successfully.
- 5) After step e) the terminal shall have given an indication that update of the local phonebook can't be performed. EF_{ADN} shall have not been updated.
- 6) After step f) the record no. 4 in the local phonebook shall be empty and the terminal shall have indicated that the deletion of the phonebook entry was performed successfully.
- 7) After step g) a new record shall have been added to EF_{ADN} in the local phonebook with the alpha identifier "Contact007" and the dialling number string "+007"

3GPP TSG-CT6 Meeting #35 Cancun, Mexico, 26.-29.05.2005

	CR-Form-v7.1
	CHANGE REQUEST
×	31.111 CR 145
For <u>HELP</u> on u	sing this form, see bottom of this page or look at the pop-up text over the \ symbols.
Proposed change	affects: UICC apps器 X ME X Radio Access Network Core Network ✓
Title: #	Addition of missing values in Proactive commands versus possible Terminal response
Source: #	CT6
Work item code: ₩	TEI Date: 第 27/04/2005
Category: 岩	F 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. Release: # Rel-6 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 table for Proactive commands versus possible Terminal response has been recently reformated, but some information is still missing for the MMS related commands.
Summary of chang	ge: The missing information is added in the table.
Consequences if not approved:	**The commands will not be able to be implemented correctly due to missing information.
Clauses affected:	₩ 6.11
Other specs affected:	Y N X Other core specifications Test specifications O&M Specifications

How to create CRs using this form:

Other comments:

- 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 $\underline{\text{ftp://ftp.3gpp.org/specs/}}$ 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.

6.11 Proactive commands versus possible Terminal response

Table 6.1 shows for each proactive command the possible terminal response returned (marked by a "●" character), in addition to those defined in TS 102 223 [32].

Table 6.1: Proactive commands versus possible terminal response

					PROA	CTIVE	COM	MAND	
		SET UP CALL	SEND SS	SEND USSD	SEND SMS	RETRI EVE MM	SUBMI T MM	DISPLA Y MM	
	TERMINAL RESPONSE	'10'	'11'	'12'	'13'	'60'	'61'	'62'	
00	Command performed successfully	•	•	•		•	•	•	
01	Command performed with partial comprehension	•	•	•		•	•	•	
02	Command performed, with missing information	•	•	•		•	•	•	
03	REFRESH performed with additional EFs read								ļ
04	Command performed successfully, but requested icon could not be displayed	•	•	•					
05	Command performed, but modified by call control by USIM	•		•					
06	Command performed successfully, limited service								
07	Command performed with modification								ļ
08	REFRESH performed but indicated USIM was not active								
09	Command performed successfully, tone not played								
10	Proactive UICC session terminated by the user	•						•	
11	Backward move in the proactive UICC session requested by the user								
12	No response from user								ļ
13	Help information required by the user								
14	USSD or SS Transaction terminated by user	•	•	•					
20	ME currently unable to process command	•	•	•		•	•	•	
21	Network currently unable to process command	•	•	•		•	•		
22	User did not accept the proactive command	•					•		
23	User cleared down call before connection or network release	•							
24	Action in contradiction with the current timer state								
25	Interaction with call control by USIM, temporary problem	•	•	•					
26	Launch browser generic error								
27	MMS Temporary Problem					•	•	•	
30	Command beyond MEs capabilities	•	•	•		•	•	•	
31	Command type not understood by ME	•	•	•		•	•	•	
32	Command data not understood by ME	•	•	•		•	•	•	
33	Command number not known by ME	•	•	•		•	•	•	
34	SS Return Error	•	•			_	_	_	
35	SMS RPERROR				•				
36	Error, required values are missing	•	•	•		•	•	•	
37	USSD return error			•			_		
38	Multiple Card command error								
39	Interaction with call/SM control by USIM, permanent problem		•	•	•				
3A	Bearer Independent Protocol error								
3B	Access Technology unable to process command								
зС	Frames error	•							
3D	MMS Error								1
			l		l	•	•	•	

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	CR-Form-v7. CHANGE REQUEST
	31.111 CR 146 # rev - # Current version: 6.5.0 #
For <u>HELP</u> on u	sing this form, see bottom of this page or look at the pop-up text over the 光 symbols.
Proposed change	affects: UICC apps策X MEX Radio Access Network Core Network
Title: ∺	Clarification for SMS_PP_Download
Source: #	CT6
Work item code: ₩	TEI Date: 第 27/04/2005
Category:	F Use one of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification) C (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900. Release: Rel-6 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 Address field of the ENVELOPE (SMS PP DOWNLOAD) has recently been updated from optional to mandatory. This could create backward compatibility issue if a release 6 card considering this field as mandatory is introduce into a terminal still considering this field as optional. If the terminal does not send the address field, the card will not consider the command as a correct one. This should be clarified in the description of the address field, with a warning to avoid the card to wait for this field.
Summary of chang	The address field is set to a not minimal element, and a note is added to warn people implementing this feature.
Consequences if not approved:	# Possible backward compatibility issue # Possible backward compatibility issue
Clauses affected:	光 7.1.1.2
Other specs affected:	Y N Control of the core specifications
Other comments:	x

How to create CRs using this form:

- 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.

7.1.1 SMS-PP data download

7.1.1.1 Procedure

If the service "data download via SMS Point-to-point" is allocated and activated in the UICC Service Table (see 3GPP TS 31.101 [13]), then the ME shall follow the procedure below:

- when the ME receives a Short Message with:
 - protocol identifier = SIM data download; and
 - data coding scheme = class 2 message; or
- when the ME receives a Short Message with:
 - protocol identifier=ANSI-136 R-DATA (see 3GPP TS 23.040 [7]); and
 - data coding scheme = class 2 message, and the ME chooses not to handle the message (e.g. MEs not supporting EGPRS over TIA/EIA-136 do not need to handle the message).
- then the ME shall pass the message transparently to the UICC using the ENVELOPE (SMS-PP DOWNLOAD) command as defined below;
- the ME shall not display the message, or alert the user of a short message waiting;
- the ME shall wait for an acknowledgement from the UICC;
- if the UICC responds with '90 00', the ME shall acknowledge the receipt of the short message to the network using an RP-ACKmessage. The response data from the UICC will be supplied by the ME in the TP-User-Data element of the RP-ACK message it will send back to the network (see 3GPP TS 23.040 [5] and 3GPP TS 24.011 [10]). The values of protocol identifier and data coding scheme in RP-ACK shall be as in the original message;
- if the UICC responds with '93 00', the ME shall either retry the command or send back an RP-ERROR message to the network with the TP-FCS value indicating 'SIM Application Toolkit Busy' (see 3GPP TS 23.040 [5]).
- If the UICC responds with '6F XX', the ME shall send back an RP-ERROR message to the network with the TP-FCS value indicating "UICC data download error". The values of protocol identifier and data coding scheme in RP-ERROR shall be as in the original message;

NOTE: The preferred way for a USAT application to indicate a Data Download error is by using the specific code '62 XX' or '63 XX' as described in the following bullet point.

- if the UICC responds with '62 XX' or '63 XX', the ME shall acknowledge the receipt of the short message to the network using an RP-ERROR message. The response data from the UICC will be supplied by the ME in the TP-User-Data element of the RP-ERROR message it will send back to the network (see 3GPP TS 23.040 [5] and 3GPP TS 24.011 [10]). The values of protocol identifier and data coding scheme in RP-ERROR shall be as in the original message. The value of the TP-FCS element of the RP-ERROR shall be "SIM data download error".

If the service "data download via SMS-PP" is not available in the UICC Service Table, and the ME receives a Short Message with the protocol identifier = SIM data download and data coding scheme = class 2 message, then the ME shall store the message in EF_{SMS} in accordance with 3GPP TS 31.102 [14].

7.1.1.2 Structure of ENVELOPE (SMS-PP DOWNLOAD)

Direction: ME to UICC.

The command header is specified in 3GPP TS 31.101 [13].

Command parameters/data.

Description	Clause	M/O/C	Min	Length			
SMS-PP download tag	9.1	М	Υ	1			
Length (A+B+C)	-	М	Υ	1 or 2			
Device identities	8.7	М	Υ	Α			
Address	8.1	М	¥N (see	В			
			note)				
SMS TPDU (SMS-DELIVER)	8.13	М	Υ	С			
Note: The UICC shall be able to manage the situation when the address field is not present, in order							
to ensure backwards compatibility with previous releases of this specification.							

- Device identities: the ME shall set the device identities to:

• source: Network;

destination: UICC.

- Address: The address data object holds the RP_Originating_Address of the Service Centre (TS-Service-Centre-Address), as defined in 3GPP TS 24.011 [10].

Response parameters/data.

It is permissible for the UICC not to provide response data. If the UICC provides response data, the following data is returned.

	Byte(s)	Description	Length
Ī	1-X (X≤128)	UICC Acknowledgement	X

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How to create CRs using this form:

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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.

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. To achieve this, the terminal shall support the global and the application specific phonebooks.

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

C6-050479

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Title: 第	CR	31.102	2 Rel-7:	Essent	tial corre	ection (of pho	nebo	ook supp	ort			
Source: #	СТ	6											
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How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \(\mathcal{H} \) 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.

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[..]

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	CHANGE REQUEST							
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	Reason for change: Service n°24 (=eMLPP) and Service n°25 (=AAeM) are defined as two services within USIM service table. The service n°25 which is required for AAeM is missed in section 5.3.11 of the susbscription related procedures. Summary of change: Added new section named "Automatic Answer for eMLPP"							
Consequences if not approved:		d required servic				na apaato / ii k	J.VI.	
Clauses affected:	策 <mark>5.3.1</mark>	1; 5.3.XX (New)						
Other specs Affected:	¥ N X X	Other core spe Test specificati	ons	X				
Other comments:	#							

How to create CRs using this form:

- 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 $\underline{\text{ftp://ftp.3gpp.org/specs/}}$ 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.

5.3.11 Enhanced multi level precedence and pre-emption service

Requirement: Service n°24 "available".

Enhanced Multi Level Precedence and Pre amption.

Request: The ME performs the reading procedure with EF_{eMLPP} .

5.3.XX Automatic Answer foron eMLPP-service.

Requirement: Service n°25 "available"

Request: The ME performs the reading procedure with EF_{AAeM} .

Update: The ME performs the updating procedure with EF_{AAeM} .

Tdoc **#** *C6-050483*

	CHANGE REQUEST	CR-Form-V/.1
*	31.102 CR 291 # rev - #	Current version: 7.0.0 **
For <u>HELP</u> on	using this form, see bottom of this page or look at the	he pop-up text over the 発 symbols.
Proposed change	affects: UICC apps第 X MEX Radio /	Access Network Core Network
Title:	Corrections to eMLPP and AAeM	
Source:	CT6	
Work item code:	R TEI-6	Date: 第 29/04/2005
Category:	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.	Release: # Rel-7 Use one of the following releases: Ph2 (GSM Phase 2) se) 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)
	within USIM service table. The service n°25 in section 5.3.11 of the susbscription related	which is required for AAeM is missed procedures.
Summary of chan	ge: Added new section named "Automatic Answ Added required service n°25 which is neede	
Consequences if not approved:	₩ Misinterpretation of services eMLPP and AA	eM.
Clauses affected:	,	
Other specs Affected:	Y N	
Other comments:	x	

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