### 3GPP TSG-T (Terminals) Meeting #17 Biarritz, France 4 – 6 September 2002

Source:	ТЗ
Title:	Change Requests to TS 03.19 and TS 43.019
Document for:	Approval

This document contains several change requests as follows:

T3 Doc	Spec	CR	Rv	Rel	Cat	Subject
T3-020663	03.19	A020	-	R99	F	Correction of incorrect integrated CR
T3-020662	43.019	024	-	Rel-4	F	Correction of incorrect integrated CR
T3-020658	43.019	021	-	Rel-5	F	Clarification of ToolkitException.HANDLER_NOT_AVAILABLE for getCapacity() methods
T3-020650	43.019	022	-	Rel-5	F	Clarification on EVENT_FIRST_COMMAND_AFTER_SELECT
T3-020649	43.019	023	-	Rel-5	F	Specification alignment with approved change requests
T3-020711	43.019	025	-	Rel-5	F	Correction of method getChannelldentifier().
T3-020712	43.019	026	-	Rel-5	F	Clarification of handling of statusType parameter by the framework in case of PoR.
T3-020713	43.019	027		Rel-5	F	Correction of the example applet

CHANGE REQUEST									
ж	03.19 CR <mark>A020</mark>	Current versi	ion: <b>8.4.0</b> <sup>#</sup>						
For <b>HELP</b> on using this form, see bottom of this page or look at the pop-up text over the <b>#</b> symbols.									
Proposed change affects: UICC apps X ME Radio Access Network Core Network									
Title:	Correction of incorrect integrated CR								
Source:	ж ТЗ								
Work item code:	ж <mark>ТЕІ</mark>	Date: ೫	21/08/2002						
Category:	<ul> <li>F</li> <li>Use <u>one</u> of the following categories:</li> <li>F (correction)</li> <li>A (corresponds to a correction in an earlier release)</li> <li>B (addition of feature),</li> <li>C (functional modification of feature)</li> <li>D (editorial modification)</li> <li>Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u>.</li> </ul>	Release: <b>%</b> Use <u>one</u> of 1 2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	R99 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)						

Reason for change: ३	Correction of a incorrect implemented CR
_	
Summary of change: \$	Change > to >= in the description of the getValue method
, ,	
Consequences if 🛛 🖁	Specification is incomplete.
not approved:	
Clauses affected:	Annex A
	YN
Other specs	Contractions *
affected:	X Test specifications
	X O&M Specifications
Other comments	
Uther comments: म	

- 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

# Annex A (normative): Java Card SIM API

The attached files "Annex\_A\_java.zip" and "Annex\_A\_HTML.zip" contains source files for the Java Card SIM API.

## List of changes to the API html and java source files

#### Class sim.toolkit.MEProfile

/\*\*

\* Returns the binary value of a parameter, delimited by two indexes, from the handset profile.

\*

- \* @param indexMSB index of the Most Significant Bit of the handset profile .
- \* @param indexLSB index of the Lowest Significant Bit of the handset profile .

\*

\* @return binary value of the data field indicated in the handset profile.

\* The indexLSB bit in the MEProfile data is the Lowest Significant bit in the short returned value. If padding is necessary, the

\* returned value is left padded with 0. The values outside the MEProfile data available are considered to bet set to 0.

\*

- \* The return value is according to the following example:
- \* If indexMSB=108 and indexLSB=104, the return value is the number of
- \* characters down ME display.
- \* li>If indexMSB=31 and indexLSB=16, the return value is a short built
- \* from the 4th and 3rd byte of the handset profile with the 4th byte as
- \* the Most significant byte.
- \*

\* @exception ToolkitException with the following reason codes:

\* ME\_PROFILE\_NOT\_AVAILABLE if Terminal Profile data are not available

#### \* BAD INPUT PARAMETER if (indexMSB >= indexLSB +16) or (indexMSB < indexLSB) or</p>

#### \* <a href="https://www.selfattictics.com">selfattics.com</a> </a>

\* (indexMSB < 0) or (indexLSB < 0) </ul>

\*/

public static short getValue(short indexMSB, short indexLSB) throws ToolkitException {

}

			(	CHANGE	ERE	Ql	JE	ST	I					CR-Form-v7
ж	43	<mark>8.019</mark>	CR	021	жrе	v	-	ж	Curre	ent ve	rsion:	5.3	<b>3.0</b>	ж
For <u>HELP</u> of	n using	this for	m, see	e bottom of thi	s page	or lo	ook a	at the	e pop·	up te	xt ove	r the a	ŧ syı	nbols.
Proposed chang	le affe	cts: l	JICC a	apps# X	ME		Rad	lio A	ccess	Netw	ork	Co	re Ne	etwork
Title:	ж <mark>СІ</mark> m	arificatio ethods	on of T	oolkitExceptio	on.HAN	NDLE	R_I	NOT	_AVA	ILABL	E for	getCa	apacit	ty()
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Category:	₩ <mark>F</mark> Use Det be f	e <u>one</u> of f F (corr A (corr B (add C (fund D (edit ailed exp found in a	the follo respon- respon- tition of ctional torial m blanatic 3GPP	owing categorie ds to a correctio feature), modification of odification) ons of the above TR 21.900.	s: on in an feature, e catego	o earli ) ories (	er re	lease	Rele Use	ase: 3 2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	# Re of the 1 (GS (Re (Re (Re (Re (Re (Re (Re	el-5 ollowin M Pha lease lease lease lease lease t lease t	ng rele ise 2) 1996) 1997) 1998) 1999) 4) 5)	eases:
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Summary of cha	nge: ¥	Removing sim.to	ve the to olkit.Pi olkit.P	oolkitexception roactiveHandl roactiveRespo	.HAND er, sim onseHa	OLER 1.tool	R_NC kit.E er cla	DT_A invel	VAIL opeHa s.	ABLE	E in -,			

Consequences if not approved:	# Specification is not consistent.	
Clauses affected:	業 Annex A and B	
Other specs affected:	Y       N         N       Other core specifications       %         N       Test specifications       %         N       O&M Specifications       %	
Other comments:	ж	

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

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

- 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

# List of changes to the API html and java source files Annex A and B

Class sim.toolkit.ProactiveHandler + getCapacity() Class sim.toolkit.EnvelopeHandler + getCapacity() Class sim.toolkit.ProactiveResponseHandler + getCapacity()

#### in all final handler classes as listed above

/\*\*

\* *Returns the maximum size of the Simple TLV list managed by the handler.* 

\* @return size in bytes

<u>\* @exception ToolkitException with the following reason codes: </u>

\*/

public short getCapacity() throws ToolkitException{

return (short)0;

}

	CHANGE REQUEST	CR-Form-v7					
¥	43.019 CR 022	urrent version: <b>5.3.0</b> <sup>#</sup>					
For <u>HELP</u> on us	ng this form, see bottom of this page or look at the p	oop-up text over the X symbols.					
<b>Proposed change affects:</b> UICC apps# X ME Radio Access Network Core Network							
Title: ೫	Clarification on EVENT_FIRST_COMMAND_AFTER	R_SELECT					
Source: ೫	Т3						
Work item code: #	TEI	Date: # 22/08/2002					
Category: #	F R Jse <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u> .	Release: #Rel-5Use oneof the following releases:2(GSM Phase 2)R96(Release 1996)R97(Release 1997)R98(Release 1998)R99(Release 1999)Rel-4(Release 4)Rel-5(Release 5)Rel-6(Release 6)					
Reason for change:	* The definition of the event introduced in the 43, misunderstood regarding the applet triggering r	.019 CR 003 may be mechanism.					
Summary of change	: # Clarify when the applet shall be triggered by the EVENT_FIRST_COMMAND_AFTER_SELECT	e toolkit framework for the event					
Consequences if not approved:	Current version of the specification may lead to issues for the Java API testing group.	misinterpretation and raise some					
Clauses affected: Other specs affected:	#       § 6.2         #       N         Other core specifications       #         Test specifications       0&M Specifications						
Other comments:	ж						

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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.

### 6.2 Applet Triggering

#### EVENT\_FIRST\_COMMAND\_AFTER\_SELECT

Upon reception of the first command received by the GSM<del>SIM</del> application after it has been selected, or after the ATR if it is the default application, <u>and before the Status Word of the processed command has been sent</u> <u>back by the GSM application</u> and after the command has been processed by the GSM application, the toolkit framework shall trigger all the toolkit applets registered to this event.

If the first command received by the GSM application is a toolkit applet triggering command (e.g. TERMINAL PROFILE), the toolkit applets registered on the EVENT\_FIRST\_COMMAND\_AFTER\_SELECT event shall be triggered first.

### Tdoc T3-020649

Revised T3-020560

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			CR-Form-v
	CHANGE REQUEST		
ж	43.019 CR 023 #rev - *	Current vers	ion: <b>5.3.0</b> <sup>#</sup>
For <u>HELP</u> on	using this form, see bottom of this page or look at th	e pop-up text	over the X symbols.
Proposed chang	affects: UICC apps# 🔀 ME 📃 Radio A	ccess Networ	k Core Network
Title:	Specification alignement with approved change r	equests	
Source:	<b>€</b> ТЗ		
			20/00/2002
work item code:	6 I E I	Date: #	20/06/2002
Category:	f F	Release: ೫	Rel-5
	<ul> <li><i>F</i> (correction)</li> <li><i>A</i> (corresponds to a correction in an earlier release</li> <li><i>B</i> (addition of feature),</li> <li><i>C</i> (functional modification of feature)</li> <li><i>D</i> (editorial modification)</li> <li>Detailed explanations of the above categories can be found in 2CRP TP 21,000</li> </ul>	2 e) R96 R97 R98 R99 Rel-4 Rol-5	(GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)
	DE TOUTIO IN SOFF <u>IR 21.900</u> .	Rel-6	(Release 6)

Reason for change:	<ul> <li>Some events defined in the specification were not integrated in the table of handler availability.</li> <li>Some CRs were not correctly integrated in the specification</li> </ul>
Summary of change:	<ul> <li>Update Table of handler availability (table 1) according to the approved CRs</li> <li>Update html files.</li> </ul>
Consequences if not approved:	# Specification is incomplete.
Clauses affected:	H 66 Appex A
Other specs affected:	Y     N       #     X       Other core specifications     #       X     Test specifications       X     O&M Specifications
Other comments:	¥

#### How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

# 6.6 Handle

## 6.7 r availability

The system handlers : ProactiveHandler, ProactiveResponseHandler, EnvelopeHandler and EnvelopeResponseHandler are Temporary JCRE Entry Point Object as defined in the Java Card Runtime Environment Specification [8].

The following rules define the minimum requirement for the availability of the system handlers and the lifetime of their content. They are generic rules and may vary with the event that triggers the toolkit applet.

#### ProactiveHandler:

- The ProactiveHandler is valid from the invocation to the termination of the processToolkit method.
- If a proactive command is pending the ProactiveHandler may not be available.
- At the processToolkit method invocation the TLV-List is cleared.
- At the call of it's init method the content is cleared and then initialised.
- After a call to ProactiveHandler.send method the handler will remain unchanged (i.e. previously send proactive command) until the ProactiveHandler.init or appendTLV methods are called.

#### ProactiveResponseHandler:

- The ProactiveResponseHandler may not be available before the first call to ProactiveHandler.send method, if available the content is cleared.
- The ProactiveResponseHandler is available after the first call to the ProactiveHandler.send method to the termination of the processToolkit method.
- If a proactive command is pending the ProactiveResponseHandler may not be available.
- The ProactiveResponseHandler content is changed after the call to ProactiveHandler.send method and remains unchanged until next call to the ProactiveHandler.send method.

#### EnvelopeHandler:

- The EnvelopeHandler and its content are available for all triggered toolkit applets (see Table1), from the invocation to the termination of their processToolkit method.
- The SIM Toolkit Framework guarantees that all registered toolkit applet are triggered and receive the data.

#### EnvelopeResponseHandler:

- The EnvelopeResponseHandler is available for all triggered toolkit applets, until a toolkit applet has posted an envelope response or sent a proactive command. After a call to the post method the handler is no longer available.
- At the process Toolkit method invocation the TLV-List is cleared.
- The EnvelopeResponseHandler content must be posted before the first invocation of a ProactiveHandler.send method or before the termination of the processToolkit, so that the GSM applet can offer these data to the ME (eg 9Fxx/9Exx/91xx). After the first invocation of the ProactiveHandler.send method the EnvelopeResponseHandler is no more available

The following diagram illustrates these rules.

1

Applet		Applet 1					Applet 2					
Method	proces	sToolkit	ро	ost	iI	nit	termi	nation	ir	nit	ir	nit
Invocation		ir	nit	se	end	se	end	proces	sToolkit	se	end	
Envelope Handler												
EnvelopeResponseHandler												
ProactiveHandler												
Proactive ResponseHandler												

#### Figure 5: Typical handler availability for toolkit applets (see Table 1 for detail)

The following table describes the minimum availability of the handlers for all the events at the invocation of the processToolkit method of the toolkit applet.

EVENT_	Reply	Envelop	EnvelopeResp	Nb of
	allowed	r	Unsenanulei	registrered
	anowed	•		Applet
FORMATTED SMS PP ENV	Y	Y	Y	1 / n (per TAR)
	(see Note 2)			.,,
_FORMATTED_SMS_PP_UPD	N	Y	N	1 / n (per TAR)
_UNFORMATTED_SMS_PP_ENV	Y	Y	Y	n/n
_UNFORMATTED_SMS_PP_UPD	N	Y	N	n/n
_FORMATTED_SMS_CB	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>1 / n (per TAR)</u>
_UNFORMATTED_SMS_CB	Y	Y	N	n/n
_MENU_SELECTION	Y	Y	N	1 / n (per Item Id)
_MENU_SELECTION_HELP_REQUEST	Y	Y	N	1 / n (per Item Id)
_CALL_CONTROL	N	Y	Y	1/1
_SMS_MO_CONTROL	N	Y	Y	1 / 1
_TIMER_EXPIRATION	Y	Y	N	1/8 (per timer)
				(see Note 1)
_EVENT_DOWNLOAD				
_MT_CALL	Y	Y	N	n/n
_CALL_CONNECTED	Y	Y	N	n / n
_CALL_DISCONNECTED	Y	Y	N	n / n
_LOCATION_STATUS	Y	Y	N	n / n
_USER_ACTIVITY	Y	Y	N	n / n
_IDLE_SCREEN_AVAILABLE	Y	Y	N	n / n
_CARD_READER_STATUS	Y	Y	N	n / n
_LANGUAGE _SELECTION	Y	Y	N	<u>n / n</u>
BROWSER_TERMINATION	Y	Y	N	<u>n / n</u>
DATA_AVAILABLE	Y	Y	<u>N</u>	1/7 (per channel)
				(see Note 1)
CHANNEL_STATUS	<u>Y</u>	<u>Y</u>	<u>N</u>	1/7 (per channel)
				<u>(see Note 1)</u>
_UNRECOGNISED_ENVELOPE	Y	Y	Y	n/n
_UNRECOGNIZED_ENVELOPE				
_STATUS_COMMAND	N	N	N	n/n
_PROFILE_DOWNLOAD	N	N	N	n/n
FIRST_COMMAND_AFTER_SELECT	<u>N</u>	<u>N</u>	<u>N</u>	<u>n / n</u>

Table 1: Handler availability for each event

Note 1: One toolkit applet can register to several timers/<u>channels</u>, but a timer/<u>channel</u> can only be allocated to one toolkit applet.

Note 2: The framework may reply busy and not trigger the toolkit applet if a PoR using SMS SUBMIT is required in the incoming message and a proactive session is ongoing.

# Annex A (normative): Java Card SIM API

The attached files "Annex\_A\_java.zip" and "Annex\_A\_HTML.zip" contains source files for the Java Card SIM API.

# List of changes to the API html and java source files

#### Class sim.toolkit.EnvelopeHandler

/\*\*

\* Looks for the Secured Data from the Command Packet in the first SMS TPDU

\* or Cell Broadcast Page Simple TLV contained in the Envelope handler. This can

\* be used on the events:

\* - EVENT\_FORMATTED\_SMS\_PP\_ENV, EVENT\_FORMATTED\_SMS\_PP\_UPD, if the SMS TP-UD is formatted

\* according to GSM TS 03.48 Single Short Message.

\* - EVENT\_FORMATTED\_SMS\_CB, if the Cell Broadcast Page is formatted according to GSM 03.48.

\* If the element is available it becomes the TLV selected.

\*

\* @return the offset of the Secured Data first byte in the first SMS TPDU or Cell Broadcast Page TLV element. If the Secured Data length is zero the value returned shall be the offset of the first byte following the TS 03.48 Command Packet structure. If the Secured Data length is zero the value returned shall be the SMS TPDU TLV length.

#### \_\_\_ \*

\* @exception ToolkitException with the following reason codes:

\* <code>UNAVAILABLE\_ELEMENT</code> in case of unavailable SMS TPDU or Cell Broadcast Page TLV element or wrong data format

\*/

public short getSecuredDataOffset() throws ToolkitException {

}

#### Class sim.toolkit.MEProfile

/\*\*

\* Returns the binary value of a parameter, delimited by two indexes, from the handset profile.

\*

- \* @param indexMSB index of the Most Significant Bit of the handset profile .
- \* @param indexLSB index of the Lowest Significant Bit of the handset profile .

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\* @return binary value of the data field indicated in the handset profile.

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\* returned value is left padded with 0. The values outside the MEProfile data available are considered to bet set to 0.

\*

- \* The return value is according to the following example:
- \* li>If indexMSB=108 and indexLSB=104, the return value is the number of
- \* characters down ME display.
- \* li>If indexMSB=31 and indexLSB=16, the return value is a short built
- \* from the 4th and 3rd byte of the handset profile with the 4th byte as
- \* the Most significant byte.
- \*

\* @exception ToolkitException with the following reason codes:

\* ME\_PROFILE\_NOT\_AVAILABLE if Terminal Profile data are not available

BAD INPUT PARAMETER if (indexMSB >= indexLSB +16) or (indexMSB < indexLSB) or</pre>

\_\* BAD\_INPUT\_PARAMETER if (indexMSB > indexLSB +16) or (indexMSB < indexLSB) or

\* (indexMSB < 0) or (indexLSB < 0) </ul>

\*/

public static short getValue(short indexMSB, short indexLSB) throws ToolkitException {

}

ж	43.019 CR 024 <b>#rev</b> - <sup>#</sup>	Current vers	<sup>ion:</sup> <b>4.2.0</b> <sup>#</sup>						
For <b>HELP</b> on using this form, see bottom of this page or look at the pop-up text over the <b>#</b> symbols.									
Proposed change affects: UICC apps# X ME Radio Access Network Core Network									
Title:	Correction of incorrect integrated CR								
Source:	5 T3								
Work item code:	3 TEI	Date: ೫	21/08/2002						
Category:	<ul> <li>F</li> <li>Use <u>one</u> of the following categories:</li> <li>F (correction)</li> <li>A (corresponds to a correction in an earlier release</li> <li>B (addition of feature),</li> <li>C (functional modification of feature)</li> <li>D (editorial modification)</li> <li>Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u>.</li> </ul>	Release: ₩ Use <u>one</u> of 2 9) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	REL-4 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)						

Reason for change: #	Correction of a incorrect implemented CR			
_				
Summary of change: #	Change $>$ to $>=$ in the description of the getValue method			
, ,				
Consequences if #	Specification is incomplete.			
not approved:				
Clauses affected: #	Annex A			
Other specs ॥ affected:	Y     N       X     Other core specifications       X     Test specifications       X     Other core specifications			
Other comments: #				

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- \* @param indexLSB index of the Lowest Significant Bit of the handset profile .

\*

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\* returned value is left padded with 0. The values outside the MEProfile data available are considered to bet set to 0.

\*

- \* The return value is according to the following example:
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- \*

\* @exception ToolkitException with the following reason codes:

\* ME\_PROFILE\_NOT\_AVAILABLE if Terminal Profile data are not available

#### \* BAD INPUT PARAMETER if (indexMSB >= indexLSB +16) or (indexMSB < indexLSB) or</p>

#### \* <a href="https://www.selfattictics.com">selfattics.com</a> </a>

\* (indexMSB < 0) or (indexLSB < 0) </ul>

\*/

public static short getValue(short indexMSB, short indexLSB) throws ToolkitException {

}

		CHAN	IGE REQ	UEST	•	CR-Form-v5.1
¥ 4	<mark>3.019</mark>	CR <mark>025</mark>	жrev	<b>-</b> <sup>#</sup>	Current vers	<sup>ion:</sup> 5.3.0 <sup>#</sup>
For <u>HELP</u> on usir	ng this for	m, see bottom	of this page or	look at th	e pop-up text	over the # symbols.
Proposed change aff	ects: ೫	(U)SIM X	ME/UE	Radio Ad	ccess Network	Core Network
Title: ೫ 🤇	Correction	n of method get	tChannelldenti	fier().		
Source: ೫ -	rsg t3					
Work item code: 🛱 🧧	ГЕІ				Date: ೫	22/08/02
Category: # U	se <u>one</u> of t F (corr A (corr B (add C (fund D (edit etailed exp e found in 3	the following cate rection) responds to a co lition of feature), ctional modification lanations of the 3GPP <u>TR 21.900</u>	egories: rrection in an ea ion of feature) n) above categorie <u>)</u> .	rlier releas s can	Release: ₩ Use <u>one</u> of 2 e) R96 R97 R98 R99 REL-4 REL-5	REL-5 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)
Reason for change:	ж <mark>The t</mark> Simp	pehavior of the le TLV Channe	getChannellde el Status has a	entifier() m length eq	nethod is not o ual to 0.	lefined in case the
Summary of change:	策 <mark>Add t</mark> meth	the exception C od.	DUT_OF_TLV_	BOUNDA	RIES for the g	getChannelldentifier()
Consequences if not approved:	# The b	pehavior is not	defined.			
Clauses affected:	¥ Anne	ex A (normative	): Java Card S			
Other specs Affected:	X Ot Te Ot	her core specil est specificatior &M Specificatio	fications ¥ ns ons	5		
Other comments:	ж					

#### How to c

#### reate 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

# List of changes to the API html and java source files Class sim.toolkit.EnvelopeHandler

#### /\*\*

\* Returns the channel indentifier value from the first Channel status TLV element<BR>

\* in the current Envelope data field. If the element is available it becomes the currently <BR>

\* selected TLV.

\*

- \* @return channel identfier
- \* @exception ToolkitException with the following reason codes:
- \* <code>UNAVAILABLE\_ELEMENT</code> in case of unavailable TLV element

\* <code>OUT\_OF\_TLV\_BOUNDARIES</code> if the Simple TLV Channel Status length is equal to 0.

\*/

public byte getChannelIdentifier() throws ToolkitException {return 0;}

#### Class sim.toolkit.ProactiveResponseHandler

/\*\*

- \* Returns the channel indentifier value from the first Channel status TLV element<BR>
- \* in the current Envelope data field. If the element is available it becomes the currently <BR>
- \* selected TLV.
- \*
- \* @return channel identfier
- \* @exception ToolkitException with the following reason codes:
- \* <code>UNAVAILABLE\_ELEMENT</code> in case of unavailable TLV element
- \* <code>OUT\_OF\_TLV\_BOUNDARIES</code> if the Simple TLV Channel Status length is equal to 0.

\*/

public byte getChannelIdentifier() throws ToolkitException {return 0;}

		CHAN	IGE REC	UEST	-	CR-Form-v5.1
ж	<mark>43.019</mark>	CR <mark>026</mark>	ж rev	<b>-</b> *	Current version	<sup>on:</sup> 5.3.0 <sup>#</sup>
For <u>HELP</u> on us	ing this fo	rm, see bottom	of this page or	look at th	ne pop-up text o	over the X symbols.
Proposed change a	ffects: ೫	(U)SIM X	ME/UE	Radio A	ccess Network	Core Network
Title: ೫	Clarificati	on of handling o	of statusType	parameter	by the framew	ork in case of PoR.
Source: ೫	TSG T3					
Work item code: अ	TEI				<i>Date:</i>	22/08/01
Category: ⊮	F Use <u>one</u> of F (cor A (cor B (add C (fun D (edi Detailed exp be found in	the following cate rection) responds to a co dition of feature), ctional modification torial modification blanations of the 3GPP <u>TR 21.900</u>	egories: rrection in an ea ion of feature) ŋ) above categorie <u>)</u> .	erlier releas	Release: % Use <u>one</u> of t 2 ( R96 ( R97 ( R98 ( R99 ( REL-4 ( REL-5 (	REL-5 he following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)
Reason for change:	:	e is an ambigui MS-SUBMIT	ity in §6.5 : the	statusTy	pe parameter is	s meaningless is case
Summary of change	e: ೫ <mark>Spec</mark>	cify that status7	ype parameter	<mark>r is meani</mark>	ngless only in o	case of SMS-SUBMIT.
Consequences if not approved:	# Carc	ls could behave	e differently reg	arding thi	s parameter.	
Clauses affected:	ж <mark>§6.5</mark>					
Other specs Affected:	ж — О Та О	ther core specifiest specification &M Specification	fications # ns ons	B		
Other comments:	ж					

- 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

# 6.5 Envelope response handling

To allow a toolkit applet to answer to some specific events (e.g. EVENT\_CALL\_CONTROL\_BY\_SIM) the SIM Toolkit Framework shall provide the *sim.toolkit.ViewHandler.EditHandler.EnvelopeResponseHandler*.

The toolkit applet can then post a response to some events with the *post()* or the *postAsBERTLV()* methods, the toolkit applet can continue it's processing (e.g. prepare a proactive command) the SIM Toolkit Framework will return the response APDU defined by the toolkit applet (i.e. 9F xx, 9E xx or 91 xx).

#### Case of *EVENT\_FORMATTED\_SMS\_PP\_ENV*:

When the *post()* or the *postAsBERTLV()* method is invoked, the SIM Toolkit Framework shall, according to bit 6 of the second octet of the SPI defined in TS 23.048[4], build a SMS-DELIVER-REPORT or a SMS-SUBMIT\_(In the case of <u>SMS-SUBMIT last that case</u> the *statusType* method parameter is meaningless). If the SMS-SUBMIT is to be used, the SIM Toolkit Framework shall build and issue a Send Short Message proactive command as defined in TS 11.14 [3].

		UEST	CR-Form-v7
ж	43.019 CR 027 #rev	- # Current version: <b>5.3.0</b>	ж
For <u>HELP</u> on	using this form, see bottom of this page or I	look at the pop-up text over the X syr	mbols.
Proposed change	e affects: UICC apps <b>೫ <mark>X</mark> ME</b>	Radio Access Network Core Ne	etwork
Title:	Correction of the example applet		
Source:	f TSG T3		
Work item code:	f TEI	<i>Date:</i>	
Category:	<ul> <li>F</li> <li>Use <u>one</u> of the following categories:</li> <li>F (correction)</li> <li>A (corresponds to a correction in an earl</li> <li>B (addition of feature),</li> <li>C (functional modification of feature)</li> <li>D (editorial modification)</li> <li>Detailed explanations of the above categories be found in 3GPP TR 21 900</li> </ul>	Release: % Rel-5Use one of the following rele2(GSM Phase 2)2(GSM Phase 2)dier release)R96R97(Release 1996)R97(Release 1997)R98(Release 1998)R99(Release 1999)s canRel-4Rel-5(Release 5)	eases:

Reason for change: ೫	The example Applet given in Annex D does not cover new features of the REL-5 API		
Summary of change: ₩	<ul> <li>Handling the BIP</li> <li>Using the getUserDataLength() method instead of getTPUDLOffset()</li> <li>Put the example applet in a separate file</li> </ul>		
Consequences if # not approved:	No example to explain the usage of the API for the BIP and the handling of Concatenated SMS		
Clauses affected: #	Annex D		
Other specs अ affected:	Y       N         X       Other core specifications       #         X       Test specifications       #         X       O&M Specifications       •		
Other comments: #			

Rel-6

(Release 6)

#### 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

# Annex D (informative): Toolkit applet example

/\*\*
 \* Example of Toolkit Applet
 \*/

package ToolkitAppletExample;

import sim.toolkit.\*; import sim.access.\*; import javacard.framework.\*;

public class MyToolkitApplet extends javacard.framework.Applet implements ToolkitInterface, ToolkitConstants{

— public static final byte MY_I	INSTRUCTION	<del>-= (byte)0x46;</del>	
	VER_OPERATION	<del>= (byte)0x0F;</del>	
	OUALIFIER	= (byte)0x80;	
	F REQUESTED BY USER	= (byte)0x10;	
		e',(bvte)'r',(bvte)'v',(bvte)'i',(bvte)	<u>'e',</u>
1	(bvte) 'e', (bvte)	$\frac{1}{1}$	- /
private byte[] menuTitle=	$\frac{(byte)'M'}{(byte)'}$	v'.(bvte)'M'.(bvte)'e'.(bvte)'n'.(bvte)	<u>, , , , , </u> ;
	$-\left\{ (byte) \mid T \mid (byte) \right\}$	$T' (byte)'E' (byte)'M' (byte)'1' };$	, j.
	$\int (byte)  T  (byte) $	$\frac{T}{(byte)!E!} = \frac{T}{(byte)!M!} = \frac{T}{(byte)!2!}$	
private byte[] item2 =	$\left( \left( bytc\right) + \frac{1}{2} \right) \left( bytc\right) + \frac{1}{2} \left( bytc\right) + \frac{1}{2$	T (byte) = (byte) M (byte) 2 ];	
private byte[] items =	$\left( byte \right) \perp \left( byte \right)$	T (byte) E (byte) M (byte) S f	
	(byce) 1 (byce)	$\frac{1}{1}$ ,	
private Object[] itemists =	$\left\{ 1 \text{Lem}, 1 \text{Lem}, 1 \right\}$	$\frac{\operatorname{CH}}{\operatorname{CH}} + \frac{\operatorname{CH}}{\operatorname{CH}} + \frac{\operatorname{CH}}{ $	
<u> </u>	<del>{(byte)'H',(byte)'</del>	e',(byte)'1',(byte)'1',(byte)'0',(byte)	<u>, , ,</u>
	<del>(byte)'W',(byte)'</del>	<del>o',(byte)'r',(byte)'1',(byte)'d',(byte)</del>	<u>'Z'};</u>
<pre>private byte[] textGInput =</pre>		<u>'o',(byte)'u',(byte)'r',(byte)' ',(byte</u>	<del>)'n',</del>
	<del>(byte)'a',(byte)'</del>	m <del>',(byte)'e',(byte)'?'};</del>	
<pre>(Tyte) 0x00; (byte) 0x00; (byte) 0x00 private ToolkitRegistry reg; private SIMView gsmFile; private byte buffer[] = new } private byte itemId; private byte result;</pre>	<del>,,(byte)0x00,(byte)0</del> ≫yte[10];	<del>x09,(byte)0x00,(byte)0x01}/</del>	
<u> </u>			
<pre>/**     * Constructor of the applet     */     public MyToolkitApplet() { </pre>			
	c		
// get the GSM application	<del>n reference</del>		
gsmFile = SIMSystem.getTh	<del>neSIMView();</del>		
// register to the SIM Te reg = ToolkitRegistry.get	oolkit Framework Entry();		
<pre>// Define the applet Ment itemId = reg.initMenuEnts</pre>	a Entry and register ry(menuEntry, (short	to the EVENT_MENU_SELECTION )0x0000, (short)menuEntry.length,	
	PRO_CMD_DISPLAY_T	EXT, false, (byte) 0x00, (short) 0x0000	<del>);</del>
// register to the EVENT_	UNFORMATTED_SMS_PP_	<del>ENV</del>	
reg.setEvent(EVENT_UNFORM	4ATTED_SMS_PP_ENV);		
<del></del>			
<u> </u>			
<pre>* Method called by the JCRE * (</pre>	at the installation	of the applet	
	to harroull ghort	hoffgot byto blongth)	
MyToolkitApplet MyApplet	- new MyToolkitAppl		
Mylooikicappiet MyAppiet	- Hew My IOOINICAPPI		
l			
l			
/ * *			
* Mothod gollod by the CON I			
*/	TUNEWOLK		
mublic Charachla act Charachla	IntorfagoObjoct ( 7	ID aligntAID byte remembers)	
	erneerraceobject ( A	TO CITENCALD, Byte parameter,	

### 3GPP TS aa.bbb vX.Y.Z (YYYY-MM)

<pre>if (parameter == (byte) 0x00)</pre>	
if ( alientAID portialEquals(baCCMAID (bute) 0000 (bute) baCCMAID length) true	<b>~</b> )
II ( CITERITATE Part Late quals ( part and b) - thigh - ( byte ) 0x00, ( byte ) passmart .tength ) == true	<del>e )</del>
}	
*/	
// get the handler references	
EnvelopeHandler envHdlr = EnvelopeHandler.getTheHandler();	
— ProactiveHandler proHdlr = ProactiveHandler.getTheHandler();	
ProactivekesponseHandler_rspHdir;	
switch(event) {	
Case_EVENT_MENU_SELECTION:	
// Prepare the Select Item proactive command	
proHdlr.init(PRO_CMD_SELECT_ITEM,(byte)0x00,DEV_ID_ME);	
// Append the Menu Title	
proHdlr.appendTLV((byte) (TAC_ALPHA_IDENTIFIER   TAG_SET_CR),	
// add all the Item	
$-$ for (short is (short) 0x0000; i<(short) 0x0004; i++) {	
proHdlr.appendTLV((byte) (TAG_ITEM   TAG_SET_CR),(byte) (i+1),	
(byte[])ItemList[i],(short) 0x0000,	
(short)((byte[])ItemList[i]).length);	
// ask the SIM Toolkit Framework to send the proactive command and check the r	esult
// Select Liem response handling	
case 1:	
case 2:	
case 3: // DisplayText	
proHdlr.init(PRO_CMD_DISPLAY_TEXT, CMD_QUALIFIER,	
	<u> </u>
	,
proHdlr.send();	
break;	
case 4: // Ask the user to enter data and display it	
repeat = Talse;	
// GetInput asking the users name	
proHdlr.initGetInput((byte)0x01, DCS_8_BIT_DATA,	
textGInput,(byte)0x00,	
<pre>(short)textGInput.length,(short)0x0001,(short)0x0002);</pre>	
proHdlr.send();	
(/ display the optional text	
// alsplay the entered text	
proHdlr.jnitDisplayText.(/byte)0x00.DCS 8 BIT DATA. textDTe	xt.,
(short)0x0000,(short) textDText.length);	,
proHdlr.send();	
}	
catch (ToolkitException MyException) {	
TOOLKILEXCEPTION.UNAVAILABLE_ELEMENT) {	FD )
	<del>BR)</del>
}	
} ·	
while (repeat);	
break;	
case_EVENT_UNFORMATTED_SMS_PP_ENV:	

// get the offset of the instruction in the TP-UD field
<pre>short TPUDOffset = (short) (envHdlr.getTPUDLOffset() + SERVER_OPERATION);</pre>
// start the action requested by the server
case 0x41 : // Update of a gsm file
// get the data from the received SMS
envHdlr.copyValue((short)TPUDOffset+1,buffer, (short)0x0000,(short)0x0003);
// write these data in the EFpuct
gsmFile.select(SIMView.FID_DF_GSM);
gsmFile.select(SIMView.FID_EF_PUCT);
<pre>gsmFile.updateBinary((short)0x0000,buffer,(short)0x0000,(short)0x0003);</pre>
break;
case 0x36 : // change the MenuTitle for the SelectItem
envHdlr.copvValue((short)TPUDOffset+1, menuTitle,(short)0x0000,(short)0x0006)
<b>\</b>
/**
* Method called by the JCPF once selected
The word process(ADDII andu)
// Unadle the Cleat All and
if (coloring public) where i
II (SelectingAppiet()) return,
switch(apdu getRuffer()[1]) {
// appartice ADDU for this applet to configure the MenuTitle from SelectItem
// Specific AFDO TOT CHES appret to configure the Menufitte flow Selectices
- Cabe (byte/m_instruction-
break;
default:
ISOException.throwIt(ISO7816.SW_INS_NOT_SUPPORTED);
<del>}</del>
<b>}</b>
+
The attached file "Annex_D_ToolkitAppletExample.zip" contains source files for the toolkit applet
example.