3GPP TSG-T (Terminals) Meeting #16 Marco Island, USA 4 – 6 June 2002

Tdoc TP-020110

Source: T3

Title: Change Requests to TS 03.19 SIM API – JavaTM

Document for: Approval

This document contains several change requests as follows:

T3 Doc	Spec	CR	Rel	Cat	Subject	
T3-020387	03.19	A018	99	F	Clarification of MEProfile behaviour	
T3-020391	03.19	A019	99	F	Correction of getSecuredDataOffset() method description for SMS-CB.	

3GPP TSG-T3 Meeting #23 Espoo, Finland, 21- 24 May 2002

CHANGE REQUEST									CR-Form-v3
*	0	3.19	CR A018	# 1	rev _	¥	Current vers	ion: 8.2.0) #
For <u>HELP</u> on	using t	this form	, see bottom	of this pag	e or look	at the	pop-up text	over the 🕱 s	ymbols.
Proposed change	affec	ts: ૠ	(U)SIM X	ME/UE	Rad	dio Acc	cess Network	Core N	Network
Title: 3	€ Clari	ification	of MEProfile I	behaviour					
Source: #	€ T3								
Work item code: 3	8 SIN	/I API					Date: ♯	24/05/02	
Category:	f F						Release: ♯	R99	
	Deta	F (essei A (corre B (Addit C (Fund D (Edito illed expla	e following cate ntial correction) sponds to a cotion of feature), tional modification anations of the GPP TR 21.900	rrection in a tion of featurn) above categ	re)	•	2) R96 R97 R98 R99 REL-4	the following re (GSM Phase 2 (Release 1990 (Release 1990 (Release 1990 (Release 4) (Release 5)	2) 6) 7) 3)
Reason for chang	re: Ж	Unspec	<mark>ified behavio</mark> u	ur of the M	EProfile o	class a	and correction	n of errors	
Summary of chan	ge: Ж	a)	Corrects the thrown for the To allow the Define the povalue for the Define the M of the range are considered. Define the M parameter is	rule when e check me access to osition of th getValue r EProfile cla of the MEF ed as not s EProfile cla	ToolkitExethod in case bits in method ass behas supported ass behass behas behass behas behass behas	case a rethe getthe MI viour vita for it.	on.BAD_INPlonegative income getValue met EProfile data when the requall methods:	UT_PARAME lex value is u hod in the short luested bits a the requeste tive startOffs	returned re outside d features
Consequences if not approved: Clauses affected:	*		"BAD_INPU" ent interpretati ds, and thus i	on and mis	sundersta	anding		lity of the ME	Profile
Other specs Affected: Other comments:	*	Tes	er core specif et specification M Specification	ns	ж				

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G Specs/CRs.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://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

```
* Checks a facility in the handset profile.
        ^\star @param index the number of the facility to check, according to the table above.
       * @return true if the facility is supported, false otherwiseif facility is not supported,
                    or if facility-index outside MEProfile data
       * @exception ToolkitException with the following reason codes: 
* ME_PROFILE_NOT_AVAILABLE if Terminal Profile data are not available
                 BAD_INPUT_PARAMETER if index has a negative value
     public static boolean check(byte index) throws ToolkitException {
          return false;
     }
       * Checks a set of facilities in the handset profile.
       \mbox{^{*}} The method checks all the facilities corresponding to bits set to 1 in \mbox{^{*}} the mask buffer.
       * Notes:
       * <m>If </em><code>offset</code><em> or </em><code>length</code><em> parameter is negative an
</em><code>ArrayIndexOutOfBoundsException</code>
       * <em> exception is thrown and no check is performed.</em>
* * * <em>If </em><code>offset+length</code><em> is greater than </em><code>mask.length</code><em>, the length
          of the </em><code>em> array an </em><code>ArrayIndexOutOfBoundsException</code>em> exception is thrown
          and no check is performed.</em>
       * 
* @param mask a byte array containing the mask to compare with the profile

* @param offset the starting offset of the mask in the byte array

* @param length the length of the mask (at least 1)

*.@return true if the bitwise AND of the MEProfile data padded with 0 and the <code>mask</code> is equal to the

<code>mask</code> set of facilities is supported, false otherwise. If <code>length</code> is equal to <code>0</code>, true is
returned.
          @exception NullPointerException if <code>mask</code> is <code>null</code>
       * @exception ArrayIndexOutOfBoundsException if check would cause access of data outside mask array bounds
* @exception ToolkitException with the following reason codes: 
* ME_PROFILE_NOT_AVAILABLE if Terminal Profile data are not available
     public static boolean check(byte[] mask,
                                             short offset,
short length) throws NullPointerException,
                                                                          ArrayIndexOutOfBoundsException,
ToolkitException {
           return false;
     }
       * Checks a facility in the handset profile.
       * @param index the number of the facility to check, according to the table above.
       * @return true if the facility is supported, false \underline{\text{if facility is not supported}},
                     or if facility-index outside MEProfile datas
       * @exception ToolkitException with the following reason codes: 
                 ME PROFILE NOT AVAILABLE if Terminal Profile data are not available
                 BAD_INPUT_PARAMETER if index has a negative value
     public static boolean check(short index) throws ToolkitException {
    return false;
     }
       * 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:
Ii>If indexMSB=108 and indexLSB=104, the return value is the number of
                           characters down ME display.
load tiplay.
cli>If indexMSB=31 and indexLSB=16, the return value is a short built
from the 4<sup>th</sup> and 3<sup>rd</sup> byte of the handset profile with the 4<sup>th</sup> byte as
                           the Most significant byte.
         public static short getValue(short indexMSB, short indexLSB) throws ToolkitException {
           return 0;
    /**
    * Copies a part of the handset profile in a buffer.
          The values outside the MEProfile data available are considered to bet set to 0.
          Notes: <em>If </em><code>dstOffset</code><em> or </em><code>dstLength</code><em> parameter is negative an
* <|1><em>!r </em><code>acrayIndexOutofBoundsException</code>
* <em> or </em><code>acrayIndexOutofBoundsException</code>
* <em> exception is thrown and no copy is performed.</em>
* <em> f </em><code>acrayIndexOutofBoundsException</code><em> is greater than </em><code>dstBuffer.length</code><em>, the length
* of the </em><code>dstBuffer</code><em> array an </em><code>ArrayIndexOutOfBoundsException</code><em> exception is thrown
* and no copy is performed.</em>
* 
*
```

CR-Form-v5.1 CHANGE REQUEST									
*	03.19 CR A019	#rev -	器 Current version	n: 8.3.0 #					
For <u>HELP</u> on using	g this form, see bottom of	f this page or look a	at the pop-up text ov	ver the ☵ symbols.					
Proposed change affects: (U)SIM									
Title: 第 C	orrection of getSecuredD	OataOffset() method	d description for SM	S-CB.					
Source: # T	3								
Work item code:	IM API		Date: ♯ 🔀	24/05/02					
De	The 03.19 CR A010 (method behaviour. Ur R99 (and subsequent have been integrated Therefore the Clarification the clarification between the clarification).	rection in an earlier rection in an earlier rection of feature) Dove categories can Tdoc T3-010064) of fortuanely the claric Releases REL-4 & cation is not enough used Data length is	Use one of the 2 (G lease) R96 (R R97 (R R98 (R R99 (R REL-4 (R REL-5 (R Clarified the getSecurification did not take R REL-5) support for for Cell Broadcast F zero the value return	e into account that in or SMS-CB formatted Page. Indeed the ned shall be the SMS					
Summary of change:	Re-write getSecuredE same way for both SM			at it behaves in the					
Consequences if not approved:	The behaviour for SM	IS-CB is not descril	bed when Secured I	Data length is zero.					
Clauses affected:	★ Annex A (normative):	Java Card SIM AP	P						
Other specs S Affected:	Other core specific Test specifications O&M Specifications								
Other comments:	HE CONTRACTOR OF THE CONTRACTO								

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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.	f

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 <u>TSGSM</u>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 {
    return 0;
}
```