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Foreword

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- x the first digit:
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 - 2 presented to TSG for approval;
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- Y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- Z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document defines the (U)SIM Application Programming Interface extending the "UICC API for Java CardTM" [2].

This API allows to develop a (U)SAT application running together with a (U)SIM application and using GSM/3G network features.

The present document includes information applicable to network operators, service providers, server -(U)SIM – and database manufacturers.

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, 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] ETSI TS 101 220: "Integrated Circuit Cards (ICC); ETSI numbering system for telecommunication; Application providers (AID)".
- [2] ETSI TS 102 241 V9.2.0: "UICC API for Java CardTM"
- [3] 3GPP TS 31.102: "Characteristics of the USIM Application".
- [4] 3GPP TS 51.011 Release 4: "Specification of the Subscriber Identity Module- Mobile Equipment (SIM ME) interface".
- [5] 3GPP TS 23.041: "Technical realization of Cell Broadcast Service (CBS)".
- [6] 3GPP TS 31.101: "UICC-terminal interface; Physical and logical characteristics".
- [7] 3GPP TS 31.111: "USIM Application Toolkit (USAT)".
- [8] 3GPP TS 51.014 Release 4: "Specification of the SIM Application Toolkit for the Subscriber Identity Module Mobile Equipment (SIM ME) interface".
- [9] 3GPP TS 31.115: "Secured packet structure for the (U)SIM Toolkit applications".
- [10] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".
- [11] Sun Microsystems "Application Programming Interface, Java Card[™] Platform, 3.0.1 Classic Edition".
- [12] Sun Microsystems "Runtime Environment Specification, Java Card[™] Platform, 3.0.1 Classic Edition".
- [13] Sun Microsystems "Virtual Machine Specification Java CardTM Platform, 3.0.1 Classic Edition".
 Note: SUN Java CardTM Specifications can be downloaded at http://java.sun.com/products/javacard
- [14] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".
- [15] IEC 61162-1: "Maritime navigation and radio communication equipment and systems Digital interfaces".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions defined in ETSI TS 102 241 [2] apply.

(U)SAT Framework : (U)SAT extension of the CAT Runtime Environment.

3.2 Abbreviations

For the purposes of the present document, the abbreviations defined in ETSI TS 102 241 [2] apply.

4 Description

4.0 Overview

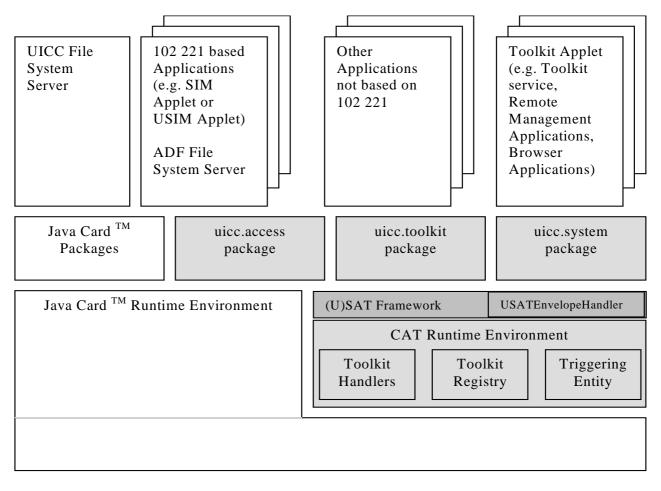
This API is an extension to the ETSI TS 102 241 [2] "UICC API for Java CardTM" and requires the implementation of this specification.

The classes and interfaces described in this specification inherit functionality from the classes and interfaces specified in the "UICC API for Java CardTM".

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

4.1 (U)SIM Java Card[™] Architecture

The overall architecture of the (U)SIM API is based on the "UICC API for Java Card™" defined in ETSI TS 102 241 [2].



Items that are defined in this specification

Figure 1: (U)SIM Java Card™ Architecture

5 File Access API

The (U)SIM file access API consists of the package *uicc.usim.access*. This package defines additional constants to those defined in the *uicc.access* package from ETSI TS 102 241 [2]. The access to the file system, defined in TS 51.011 [4] and TS 31.102 [3], is the one specified in ETSI TS 102 241 [2] via the UICC *FileView* Interface. When selecting a cyclic file the current record number is defined, this applies also to files located under DF_{GSM}.

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 ETSI TS 102 241 [2].

6.1 Applet triggering

See ETSI TS 102 241 [2].

6.1.1 Exception Handling

The following clause describes the handling of exceptions by the (U)SAT Framework in addition to the behaviour defined in ETSI TS 102 241 [2] for the CAT Runtime Environment.

If an Applet triggered by EVENT_FORMATTED_SMS_PP_ENV event throws an ISOException with the reason code (0x6FXX), it shall be sent to the terminal.

Other Exceptions shall not be propagated to the terminal.

6.2 Definition of Events

The following events can trigger a Toolkit Applet in addition to the events defined in ETSI TS 102 241 [2], all short values are reserved in ETSI TS 102 241 [2]:

Event Name	Reserved short value
EVENT_FORMATTED_SMS_PP_ENV	2
EVENT_FORMATTED_SMS_PP_UPD	3
EVENT_UNFORMATTED_SMS_PP_ENV	4
EVENT_UNFORMATTED_SMS_PP_UPD	5
EVENT_UNFORMATTED_SMS_CB	6
EVENT_MO_SHORT_MESSAGE_CONTROL_BY_NAA	10
EVENT_FORMATTED_SMS_CB	24
EVENT_EVENT_DOWNLOAD_IWLAN_ACCESS_STATUS	30
EVENT_EVENT_DOWNLOAD_NETWORK_REJECTION	31
EVENT_EVENT_DOWNLOAD_CSG_CELL_SELECTION	33
EVENT_FORMATTED_USSD	121
EVENT_UNFORMATTED_USSD	122
EVENT_EVENT_DOWNLOAD_IMS_REGISTRATION	119
EVENT_EVENT_DOWNLOAD_INCOMING_IMS_DATA	120

Table 1: (U)SAT event list

EVENT_FORMATTED_SMS_PP_ENV, EVENT_UNFORMATTED_SMS_PP_ENV, EVENT_FORMATTED_SMS_PP_UPD, EVENT_UNFORMATTED_SMS_PP_UPD

There are two ways for a card to receive a Short Message Point to Point: via an ENVELOPE(SMS-PP DOWNLOAD) APDU as defined in TS 31.111 [7] and TS 51.014 [8] or an UPDATE RECORD EF_{SMS} APDU as defined in TS 31.102 [3] and TS 51.011 [4]. The EF_{SMS} can be either located under the $DF_{Telecom}$ or under any ADF as defined in TS 31.102 [3] and TS 51.011 [4].

The received Short Message may be:

- formatted according to TS 31.115 [9] or an other protocol to identify explicitly the toolkit applet for which the message is sent;
- unformatted (e.g. a toolkit applet specific protocol) then the (U)SAT Framework will pass this data to all registered toolkit applets.

When the Short Message is received as Concatenated Short Messages as defined in TS 23.040 [10], it is the responsibility of the (U)SAT Framework to link single Short Messages together to re – assemble the original message before any further processing. The original Short Message shall be placed in one SMS TPDU TLV (with TP-UDL field coded on one octet) included in the *USATEnvelopeHandler*. The concatenation control headers used to re-assemble the short messages in the correct order shall not be present in the SMS TPDU. The TP-elements of the SMS TPDU and the Address (TS – Service-Centre-Address) shall correspond to the ones in the last received Short Message (independently of the Sequence number of Information-Element-Data).

The minimum requirement for the (U)SAT Framework is to process a concatenated short message with the following properties:

- the Information Element Identifier is equal to the 8-bit reference number.
- it contains uncompressed 8 bit data or uncompressed UCS2 data.

EVENT_FORMATTED_SMS_PP_ENV

Upon reception of a TS 31.115 [9] formatted Short Message Point to Point (Single or Concatenated) via an ENVELOPE, the (U)SAT Framework shall:

- verify the security of the Short Message as per TS 31.115 [9];
- trigger the toolkit applet registered with the corresponding TAR;
- take the optional Application Data posted by the triggered toolkit applet if present;
- secure and send the response packet using SMS-DELIVER-REPORT or SMS-SUBMIT.

When the toolkit applet is triggered, data shall be provided deciphered.

EVENT_UNFORMATTED_SMS_PP_ENV

Upon reception of an unformatted Short Message Point to Point (Single or Concatenated) via an ENVELOPE, the (U)SAT Framework shall trigger all the Toolkit Applets registered to this event.

NOTE: As a consequence of the *EnvelopeResponseHandler* availability rules specified in clause 6.6, only the first triggered toolkit applet is guaranteed to be able to send back a response.

EVENT_FORMATTED_SMS_PP_UPD

Upon reception of a TS 31.115 [9] formatted Short Message Point to Point (Single or Concatenated) via an UPDATE RECORD EF_{SMS}, the (U)SAT Framework shall:

- update the EF_{SMS} file with the data received, it is then up to the receiving toolkit applet to change the SMS stored in the file (i.e. the toolkit applet need to have access to the EF_{SMS} file)
- verify the security of the Short Message as per TS 31.115 [9];
- convert the UPDATE RECORD EF_{SMS} APDU into a COMPREHENSION TLV List;
- trigger the toolkit applet registered with the corresponding TAR;

When the toolkit applet is triggered, data shall be provided deciphered.

The USATEnvelopeHandler provided to the applet shall:

- return *BTAG_SMS_PP_DOWNLOAD* to the *getTag()* method call;
- return the Comprehension TLV list length to the getLength() method call;

The USATEnvelopeHandler provided to the applet shall contain the following COMPREHENSION TLVs:

- Device Identities TLV

The Device Identities Comprehension TLV is used to store the information about the absolute record number in the EF_{SMS} file and the value of the EF_{SMS} record status byte, and is formatted as defined below:

Device identities Comprehension TLV
Device Identities tag
length = 02
Absolute Record Number
Record Status

With the absolute record number the toolkit applet can update EF_{SMS} in absolute mode to change the received SMS (e.g. in a readable text).

For Concatenated Short Message the Absolute Record Number and the Record Status will correspond to the last UPDATE RECORD EF_{SMS} APDU received.

- Address TLV

The value is the TS-Service-Centre-Address (RP-OA) of the last UPDATE RECORD EF_{SMS} APDU.

- SMS TPDU TLV

The value is the SMS TPDU provided deciphered and reassembled, if needed

- AID TLV

The AID comprehension TLV is present only if the EF_{SMS} file updated is under an ADF. The value is the AID of the ADF as defined TS 31.111 [7].

The order of the TLVs given in the USATEnvelopeHandler is not specified,

NOTE: To get each COMPREHENSION TLV, it is recommended that the applet uses the *ViewHandler.findTLV()* methods

EVENT_UNFORMATTED_SMS_PP_UPD

Upon reception of an unformatted Short Message Point to Point (Single or Concatenated) via UPDATE RECORD EF_{SMS} APDU, the (U)SAT Framework shall :

- update the EF_{SMS} file with the data received;
- convert the UPDATE RECORD EF_{SMS} APDU data into a COMPREHENSION TLV List (as described for EVENT_FORMATTED_SMS_PP_UPD);
- trigger all the Toolkit Applets registered to this event.

The content of EF_{SMS} may have been modified by a previously triggered Toolkit Applet..

EVENT_FORMATTED_SMS_CB, EVENT_UNFORMATTED_SMS_CB

The received Cell Broadcast Message, via an ENVELOPE (CELL BROADCAST DOWNLOAD) APDU as defined in TS 31.111 [7] and TS 51.014 [8] and, can be either:

- formatted according to TS 31.115 [9] or an other protocol to identify explicitly the toolkit applet for which the message is sent;
- unformatted (e.g. using a toolkit applet specific protocol), then the (U)SAT Framework will pass this data to all registered toolkit applets.

When the Cell Broadcast Message is received as multiple pages as defined in TS 23.041 [5], it is the responsibility of the (U)SAT Framework to link single pages together to re-assemble the original message before any further processing. The original Cell Broadcast message shall be placed in one Cell Broadcast page TLV included in the *USATEnvelopeHandler*. The message parameters shall correspond to the ones in the last received Cell Broadcast page (independently of the Page Parameter).

EVENT_FORMATTED_SMS_CB

Upon reception of a TS 31.115 [9] formatted Cell Broadcast message, the (U)SAT Framework shall:

- verify the security of the Cell Broadcast message as per TS 31.115 [9];
- trigger the toolkit applet registered with the corresponding TAR;

When the toolkit applet is triggered, data shall be provided deciphered.

EVENT_UNFORMATTED_SMS_CB

Upon reception of an unformatted Cell Broadcast message, the (U)SAT Framework shall trigger all the Toolkit Applets registered to this event.

EVENT_MO_SHORT_MESSAGE_CONTROL_BY_NAA

Upon reception of an ENVELOPE (MO SHORT MESSAGE CONTROL defined in TS 51.014 [8] and TS 31.111 [7]) APDU as defined in TS 31.101 [6] and TS 51.011 [4] the (U)SAT Framework shall trigger the Toolkit Applet registered to this event. The (U)SAT Framework shall not allow more than one Toolkit Applet to be registered to this event at a time(e.g. if a Toolkit Applet is registered to this event but not in selectable state the (U)SAT Framework shall not allow another Toolkit Applet to register to this event).

EVENT_FORMATTED_USSD, EVENT_UNFORMATTED_USSD

The received USSD String, via an ENVELOPE (USSD Data Download) APDU as defined in TS 31.111 [7], may be:

- formatted according to TS 31.115 [9] or an other protocol to identify explicitly the toolkit applet for which the message is sent;
- unformatted (e.g. a toolkit applet specific protocol) then the (U)SAT Framework will pass this data to all registered toolkit applets.

When the USSD Message is received as concatenated as defined in TS 31.115 [9], it is the responsibility of the (U)SAT Framework to link single USSD Messages together to re-assemble the original message before any further processing. The original USSD message shall be placed in one USSD String TLV included in the *USATEnvelopeHandler*. The USSD String parameters (DCS, PFI, CCF) shall correspond to the ones in the last received USSD String (independently of the CCF Sequence number).

EVENT_FORMATTED_USSD

Upon reception of a TS 31.115 [9] formatted USSD Message via an ENVELOPE, the (U)SAT Framework shall:

- verify the security of the USSD Message as per TS 31.115 [9];
- trigger the toolkit applet registered with the corresponding TAR;
- take the optional Application Data posted by the triggered toolkit applet if present;
- secure and send the response packet.

When the toolkit applet is triggered, data shall be provided deciphered.

EVENT_UNFORMATTED_USSD

Upon reception of an unformatted USSD String via an ENVELOPE, the (U)SAT Framework shall trigger all the Toolkit Applets registered to this event.

Note: As a consequence of the *EnvelopeResponseHandler* availability rules specified in clause 6.6, only the first triggered toolkit applet is guaranteed to be able to send back a response.

EVENT_EVENT_DOWNLOAD_IWLAN_ACCESS_STATUS

EVENT_EVENT_DOWNLOAD_NETWORK_REJECTION

EVENT_EVENT_DOWNLOAD_CSG_CELL_SELECTION

EVENT_EVENT_DOWNLOAD_IMS_REGISTRATION

EVENT_EVENT_DOWNLOAD_INCOMING_IMS_DATA

Upon reception of an ENVELOPE (Event Download) APDU command as defined in TS 31.111 [7] the (U)SAT Framework shall trigger all the Toolkit applets registered to the corresponding event.

The following events defined in TS 31.111 [7] shall be raised upon reception of the corresponding APDU defined in either TS 51.011 [4] or TS 31.101 [6].

EVENT_PROFILE_DOWNLOAD EVENT_MENU_SELECTION, EVENT_MENU_SELECTION_HELP_REQUEST EVENT CALL CONTROL BY NAA EVENT_TIMER_EXPIRATION EVENT_EVENT_DOWNLOAD_MT_CALL EVENT_EVENT_DOWNLOAD_CALL_CONNECTED EVENT_EVENT_DOWNLOAD_CALL_DISCONNECTED EVENT_EVENT_DOWNLOAD_LOCATION_STATUS EVENT_EVENT_DOWNLOAD_USER_ACTIVITY EVENT_EVENT_DOWNLOAD_IDLE_SCREEN_AVAILABLE EVENT EVENT DOWNLOAD CARD READER STATUS EVENT STATUS COMMAND EVENT_EVENT_DOWNLOAD_LANGUAGE_SELECTION EVENT_EVENT_DOWNLOAD_BROWSER_TERMINATION $EVENT_EVENT_DOWNLOAD_DATA_AVAILABLE$ EVENT_EVENT_DOWNLOAD_CHANNEL_STATUS EVENT_EVENT_DOWNLOAD_ACCESS_TECHNOLOGY_CHANGE EVENT_EVENT_DOWNLOAD_DISPLAY_PARAMETER_CHANGED EVENT_EVENT_DOWNLOAD_LOCAL_CONNECTION EVENT EVENT DOWNLOAD NETWORK SEARCH MODE CHANGE EVENT_EVENT_DOWNLOAD_BROWSING_STATUS EVENT_PROACTIVE_HANDLER_AVAILABLE EVENT_EXTERNAL_FILE_UPDATE EVENT_FIRST_COMMAND_AFTER_ATR EVENT_UNRECOGNIZED_ENVELOPE

6.3 Registration

A Toolkit Applet shall register to events described in 6.2 as defined in ETSI TS 102 241 [2].

Constants for these events are available in uicc.usim.toolkit.ToolkitConstants interface in Annex A.

The *uicc.toolkit.ToolkitException* TAR_NOT_DEFINED shall be thrown if a Toolkit Applet has no TAR defined and registers to events: EVENT_FORMATTED_SMS_PP_ENV, EVENT_FORMATTED_SMS_PP_UPD, EVENT_FORMATTED_SMS_CB, EVENT_FORMATTED_USSD.

The *uicc.toolkit.ToolkitException*.EVENT_ALREADY_REGISTERED shall be thrown if there is another Toolkit Applet already registered to *EVENT_MO_SHORT_MESSAGE_CONTROL_BY_NAA*.

6.4 Proactive command handling

There is no extension of the CAT Runtime Environment by the (U)SAT Framework for proactive command handling.

6.5 Envelope response handling

For the events defined in the present document, the following rules apply:

A Toolkit Applet can post a response by using the *post()* method or the *postAsBERTLV()* method defined in ETSI TS 102 241 [2]. The (U)SAT Framework shall return the Status Word as defined in TS 31.111 [7] and in TS 51.014 [8] depending on the current NAA.

Case of EVENT_MO_SHORT_MESSAGE_CONTROL_BY_NAA:

- The rules defined for EVENT_CALL_CONTROL_BY_NAA in ETSI TS 102 241 [2] apply.

Case of EVENT_UNFORMATTED_SMS_PP_ENV:

- See ETSI TS 102 241 [2].

Case of EVENT_FORMATTED_SMS_PP_ENV:

- When the *post()* or the *postAsBERTLV()* method is invoked, the (U)SAT Framework shall, according to bit 6 of the second octet of the SPI defined in TS 31.115 [9], build a SMS-DELIVER-REPORT or a SMS-SUBMIT.

In case of a SMS-DELIVER-REPORT and if the post response is too large to be contained in a SMS-DELIVER-REPORT, the (U)SAT Framework shall issue Response Packets as defined in TS 31.115 [9].

In case of a SMS-DELIVER-REPORT, the (U)SAT Framework shall return the Status Word for RP-ACK or RP-ERROR as defined in TS 31.111 [7] and in TS 51.014 [8] depending on the current NAA.

In case of SMS-SUBMIT the boolean value method parameter shall be ignored by the (U)SAT Framework. If the SMS-SUBMIT is to be used, the (U)SAT Framework shall build and issue a Send Short Message proactive command as defined in TS 31.111 [7] and in TS 51.014 [8] depending on the current NAA.

Case of EVENT_FORMATTED_USSD:

- When the *post()* or the *postAsBERTLV()* method is invoked, the (U)SAT Framework shall build a USSD String to be sent back in the Return Result Component contained in the subsequent Facility message. In that case the (U)SAT Framework shall return the Status Word as defined in TS 31.111 [7].

Case of EVENT_UNFORMATTED_USSD:

- See ETSI TS 102 241 [2].

6.6 System Handler management

For the handler management of the *ProactiveHandler*, the *ProactiveResponseHandler*, the *EnvelopeHandler* and the *EnvelopeResponseHandler*, the rules defined in ETSI TS 102 241 [2] apply.

USATEnvelopeHandler:

The single system instance of the USATEnvelopeHandler and the single system instance of the EnvelopeHandler are two distinct objects instances.

- When available the *USATEnvelopeHandler* shall remain available and its content shall remain unchanged from the invocation to the termination of the *processToolkit()* method.
- The TLV List provided in the USATEnvelopeHandler are the same as in the EnvelopeHandler.
- The handler availability of the USATEnvelopeHandler is the same handler availability as the EnvelopeHandler including all the events defined in ETSI TS 102 241 [2].

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. The rules described in this table apply in addition to the rules described in "UICC API for Java CardTM"

EVENT_	Reply busy allowed	EnvelopeHandler / USATEnvelopeHandler	EnvelopeResponse Handler	Nb of triggered / registrered Applet	
_FORMATTED_SMS_PP_ENV	Y (and Nate 4)	Y	Y	1 / n (per TAR)	
	(see Note 1)				
_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	Y	Y	N	1/n (per TAR)	
_UNFORMATTED_SMS_CB	Y	Y	N	n/n	
_MO_SHORT_MESSAGE_CONTROL_BY_NAA	N	Y	Y	1/1	
_FORMATTED_USSD	Y	Y	Y	1 / n (per TAR)	
UNFORMATTED_USSD	Y	Y	Y	n/n	
EVENT_DOWNLOAD					
_IWLAN_ACCESS_STATUS Y Y N n/n					
_NETWORK_REJECTION	Y	Y	N	n/n	
_IMS_REGISTRATION	Y	Y	N	n/n	
_INCOMING_IMS_DATA	Y	Y	N	n/n	
NOTE 1: The framework may reply busy and not trigger the toolkit applet if e.g. a PoR using SMS SUBMIT is required in the incoming message and a proactive session is ongoing.					

Table 2: Handler availability for each event

6.7 (U)SAT Framework behaviour

The (U)SAT Framework is a (U)SAT extension of the CAT Runtime Environment as defined in ETSI TS 102 241 [2]. In addition, the (U)SAT Framework shall consider the EVENT_EVENT_DOWNLOAD_* defined in this specification when issuing the SET UP EVENT LIST system proactive command.

7 UICC toolkit applet

See ETSI TS 102 241 [2].

8 Geo Location API

The Geo Location API consists of the package *uicc.usim.geolocation*. This package defines services to allow an Applet to perform a geographical location operation, depending of the ME capabilities. When a geographical location operation is requested, the API will follow a defined way to choose either "Geographical Location Request" toolkit command or "Provide Local Information" toolkit command as defined in TS 31.111 [7] to determine the location information. The result is formatted using GAD shapes as defined in TS 23.032 [14] or in the format of NMEA sentences defined in IEC 61162-1 [15].

Annex A (normative): Java Card[™] (U)SIM API

The attached files "31130_Annex_A_Java.zip", and "31130_Annex_A_HTML.zip" contains source files and html documentation for the Java CardTM (U)SIM API.

Annex B (normative): Java Card[™] (U)SIM API identifiers

The attached file "31130_Annex_B_Export_files.zip" contains the export files for the uicc.usim.* package.

Annex C (normative): (U)SIM API package version management

The following table describes the relationship between each TS 31.130 specification version and its packages AID and Major, Minor versions defined in the export files.

TS 31.130	uicc.usim.access package	uicc.usim.toolkit package		
	AID	Major,	AID	Major,
		Minor		Minor
	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.0
	10 00 00		20 00 00	
7.1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.1
	10 00 00		20 00 00	
7.2.1	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.2
	10 00 00		20 00 00	
10.1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.7
	10 00 00		20 00 00	
10.2.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.8
	10 00 00		20 00 00	

TS 31.130	uicc.usim.geolocation		
	AID	Major, Minor	
	A000000087 1005 FFFF FFFF 89 13 300000	1.0	
13.1.0	A000000087 1005 FFFF FFFF 89 13 300000	2.0	

The package AID coding is defined in ETSI TS 101 220 [1]. The (U)SIM API packages' AID are not modified by changes to Major or Minor Version.

The Major Version shall be incremented if a change to the specification introduces byte code incompatibility with the previous version.

The Minor Version shall be incremented if a change to the specification does not introduce byte code incompatibility with the previous version.

The package *uicc.usim.access* contains only constants, therefore it may not be loaded on the UICC.

Annex D (normative): USIM API jar files

The attached files "31130_Annex_D.jar", contains class files for the Java CardTM (U)SIM API.

Annex E (informative): Change History

CT-52 CP-110507 - 0050 1 Addition of events and reservation of constant values for Java API 10.1.0 CT-54 CP-110905 - 0053 - Correction to TAG_CSG_SELECTION_STATUS 10.2.0 CT-54 CP-110905 - 0054 - Correction to TAG_CSG_SELECTION_STATUS 10.2.0 CT-55 CP-120154 C6-120070 0059 Correction to CAG_CSG_SELECTION_STATUS 10.3.0 CT-55 CP-120154 C6-120071 0060 Correction to constant value in TerminalProfile.java 10.3.0 CT-55 CP-120154 C6-120071 0060 Correction to constant value in TerminalProfile.java 10.3.0 CT-56 CP-120154 C6-120071 0061 Update the reference to ETSI TS 102 241 10.3.0 CT-56 CP-120393 C6-120272 0061 1 Correct implementation of CR 0059 for TAG_CSG_SELECTION_STATUS_N 10.4.0 CT-56 CP-120393 C6-120273 0063 1 Adding a constant values in USATTerminalProfile.java for the indication of IMS support 10.4.0 CT-56 CP-12039	TSG / Date	TSG doc	WG doc	CR	Rev	Subject/Comment	New
CT-28 CP-050139 C6-050446 OII Allign paragraph numbering between TS 31.130 and ZI.10 ZI.10 CT-28 CP-050139 C6-050446 OII Delete version and author info from the Java source code ZI.00 CT-28 CP-050141 C6-050420 OI4 EVENT_UNFORMATTED_USSD ZI.00 CT-29 CP-050340 C6-050691 Info Addition of new events EVENT_FORMATTED_USSD ZI.00 CT-33 CP-060341 C6-060791 OI22 Colentication on getShortMessageLength() method when applied on TA.10 CT-34 CP-060546 C6-060791 0022 2 Carrection of Annex A JAVA.zp, package ucc. usin.tookkt 7.5.0 CP-070088 C6-060798 0024 1 Correction of Annex A JAVA.zp, package ucc. usin.tookkt 7.5.0 CP-070088 C6-070257 0229 Correction of new constant values for lise in the USIM application 7.7.0 T.6.0 CP-070286 C6-070287 0229 Correction of new constant values for lise in the USIM application 7.7.0 CT-36 CP-070286 C6-070287 0229 Correction of new constant values for lise in the USIM applicatin 7.7.0 CP-07	TP-27					Generation of Version 7.0.0 based on version 6.2.0	7.0.0
ETS 102 241 ETS 102 241 CT-28 CP-050133 C6-050440 013 Delete version and author info from the Java source code 7.1.0 CT-28 CP-050130 C6-050440 014 Addition of new events EVENT_FORMATTED_USSD 7.1.0 CT-29 CP-050340 CE-060520 016 Add missing constant values 7.2.0 CT-33 CP-060391 CE-060520 019 1 Correction of missing event download LiveLAN access status 7.3.0 CT-34 CP-060546 C6-060791 0022 1 Carrection of missing event download LiveLAN access status 7.4.0 CT-35 CP-060548 CE-060798 0024 1 Correction of the USATErvalopeHandlerSystem method prototype CT-36 CP-070028 C6-07025 0028 2 Update the reference to L3N2 Acaret values for lise 10 2241 7.6.0 CT-36 CP-070229 C6-07025 0029 2 Correction of references to L3N2 Acaret values for lise 10 2241 7.6.0 CT-36 CP-070229 C6-07025 0029 1 Introduction of references to L3N2 Acaret values for L3N4 applicati	TP-27	TP-050023	T3-050187	009			7.0.0
CT-28 CP-050141 C6-060420 014 Addition of new events EVENT_FORMATTED_USSD and 7.1.0 CT-29 CP-050340 C6-050691 016 Adding missing constant values 7.2.0 CT-33 CP-060391 C6-050590 019 1 2005-11: Addition of missing event download I-WLAN access status 7.3.0 CT-34 CP-060341 C6-060791 0022 1 Addition of missing event download I-WLAN access status 7.4.0 CT-35 CP-070082 C6-070793 0022 1 Correction of the USATErivelopeHandlerSystem method prototype CT-36 CP-070088 C6-07025 0029 Correction of the reference to TSI TS 102 241 7.6.0 CT-36 CP-070288 C6-070284 0022 1 Introduction of a geographical location discovery Java Card™ API 8.00 CT-42 CP-070089 C6-070280 0029 Correction of references to TSI TS 102 221 7.6.0 CT-42 CP-070080 C6-070280 0034 1 Introduction of a geographical location discovery Java Card™ API 8.30 CT-43 CP-070980	CT-28	CP-050139	C6-050445	011			7.1.0
CT-28 CP-050141 C6-060420 014 Addition of new events EVENT_FORMATTED_USSD and 7.1.0 CT-29 CP-050340 C6-050691 016 Adding missing constant values 7.2.0 CT-33 CP-060391 C6-050590 019 1 2005-11: Addition of missing event download I-WLAN access status 7.3.0 CT-34 CP-060341 C6-060791 0022 1 Addition of missing event download I-WLAN access status 7.4.0 CT-35 CP-070082 C6-070793 0022 1 Correction of the USATErivelopeHandlerSystem method prototype CT-36 CP-070088 C6-07025 0029 Correction of the reference to TSI TS 102 241 7.6.0 CT-36 CP-070288 C6-070284 0022 1 Introduction of a geographical location discovery Java Card™ API 8.00 CT-42 CP-070089 C6-070280 0029 Correction of references to TSI TS 102 221 7.6.0 CT-42 CP-070080 C6-070280 0034 1 Introduction of a geographical location discovery Java Card™ API 8.30 CT-43 CP-070980	CT-28	CP-050139	C6-050446	013		Delete version and author info from the Java source code	7.1.0
CT-29 CP-050340 C6-050691 1016 Adding missing constant values 7.2.0 CT-33 CP-060391 C6-060520 019 1 2005-11: Adds missing attachment files and adds line to table in 7.2.1 CT-34 CP-060366 C6-060520 019 1 Carrification or gatShortMessageLength() method when applied on 7.4.0 CT-35 CP-060566 C6-060798 0022 1 Carrification or of Annex A JAVA.2rp. package uicc.usim.toolkt 7.5.0 CT-35 CP-070038 C6-070275 0028 2 Update the reference to L3T IST 102 221 7.6.0 CP-070298 C6-070276 0028 2 Update the reference to ETSI TS 102 221 7.6.0 CT-36 CP-070298 C6-070278 0029 - Correction of the reference to ETSI TS 102 221 7.6.0 CT-42 CP-080908 C6-080455 0033 1 Introduction of assort values for USIM files 8.1.0 CT-46 CP-080908 C6-090483 0040 1 References update 8.3.0 CT-46 CP-080798 C6-090483 0040		CP-050141		014		Addition of new events EVENT_FORMATTED_USSD and	
CT-33 CP-060391 C6-060520 O19 1 Correction of missing attachment files and adds line to table in annex C. 7.2.1 CT-34 CP-060391 C6-060590 020 1 Addition of missing event download I-WLAN access status 7.3.0 CT-34 CP-060546 C6-060798 0022 1 Correction of the USATEnvelopeHandlerSystem method prototype CT-36 CP-070068 C6-07093 0027 1 Correction of the USATEnvelopeHandlerSystem method prototype CT-36 CP-070080 C6-070257 0028 L godate the reference to LST IST 102 221 7.6.0 CT-36 CP-070284 C6-070564 0032 1 Introduction of a new constant values for Ities in the USIM application 7.7.0 CT-42 CP-080196 C6-090033 0033 2 Introduction of a geographical location discovery Java Card™A PI 8.0.0 CT-43 CP-090196 C6-090043 0040 1 References update 8.3.0 CT-46 CP-090113 C6-090491 0044 1 References update 8.3.0 CT-46 CP-09011	CT-29	CP-050340	C6-050691	016			7.2.0
CT-33 CP-060391 C6-060520 019 1 Correction of missame de constant 7.3.0 CT-34 CP-060546 C6-060791 0022 2 Clarification on getShortMessageLength() method when applied on a SMS Cell Broadcast. 7.4.0 CT-36 CP-050548 C6-060798 0027 1 Correction of Annex A JAVA.zip, package uicc.usim.toolkit 7.5.0 CF-070086 C6-070125 0028 2 Update the reference to Java Card 2.2.2 7.6.0 CP-070286 C6-07054 0032 1 Introduction of new constant values for files in the USIM application 7.7.0 CT-36 CP-070284 C6-070564 0032 1 Introduction of a geographical location discovery Java Card?** API 8.00 CT-45 CP-080798 C6-090430 0034 2 Introduction of missing constant values for USIM files 8.1.0 CT-46 CP-0907919 C6-090430 0040 1 References update 8.3.0 CT-46 CP-091013 C6-090490 0042 1 Support of missing constant values for USIM files 8.1.0 CT-46						2005-11: Adds missing attachment files and adds line to table in	
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Product BMS Cell Broadcast. CP-050548 C6-060798 0024 1 Correction of the USATErvelopeHandlerSystem method prototype CT-35 CP-070068 C6-07025 0028 2 Update the reference to Java Card 2.2.2 7.6.0 CT-36 CP-070298 C6-070257 0029 Correction of the reference to TSI TS 102 241 7.6.0 CP-070298 C6-070524 0029 Correction of references to TSI TS 102 221 7.6.0 CT-36 CP-070844 C6-070644 00070564 0032 1 Introduction of an geographical location discovery Java Card™ API 8.0.0 CT-42 CP-080908 C6-090456 0035 1 Introduction of an geographical location discovery Java Card™ API 8.0.0 CT-45 CP-090978 C6-090430 0042 1 Support of missing constant values for USIM files 8.1.0 CT-46 CP-0907103 C6-090470 044 1 Support of missing constant values 9.0.0 CT-46 CP-0907103 C6-090470 047 1 Addition of missing constant values 9.1.0			C6-060590	020	1	Addition of missing event download I-WLAN access status	
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CF-070125 0028 2 Update the reference to Java Card 2.2.2 CT-36 CP-070298 C6-070257 0029 - Correction of the references to ETSI TS 102 223 and ETSI TS 102 221 CT-38 CP-070284 C6-070554 0032 1 Introduction of new constant values for files in the USIM application 7.7.0 CT-42 CP-080908 C6-080455 0034 2 Introduction of a geographical location discovery Java Card ^{TW} API 8.0.0 CT-43 CP-090196 C6-090433 0039 2 Alignment of constant values for USIM files 8.1.0 CT-46 CP-090178 C6-090433 0040 1 References update 8.3.0 CT-46 CP-091013 C6-090470 0045 1 Support of missing event 8.3.0 CT-47 CP-100185 C6-100081 0042 1 Support of CSC Gel discovery and CSC selection event 9.1.0 CT-47 CP-100185 C6-100081 0048 2 Support of CSC Gel discovery and CSC selection event 9.1.0 CT-47 CP-100186 C6-100018 0049		CP-050548	C6-060798	0024	1	Correction of the USATEnvelopeHandlerSystem method prototype	
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	CT-75	CP-170166	C6-170058	0075	† ·	Geolocalization API document alignment	13.3.0

History

	Document history						
V13.0.0	January 2016	Publication					
V13.1.0	November 2016	Publication					
V13.2.0	January 2017	Publication					
V13.3.0	April 2017	Publication					